

## Module Support on Cisco's Integrated Services Routers Generation 2

**Table 1.** Module Support on ISR and ISR G2 - Service Modules, Network Modules and Extended Voice Modules

SM, NM, NME, EVM	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>1</sup>	Supported Modules per Chassis
<b>ATM Modules</b>						
NM-1A-OC3-POM	Data	3925 - 3945E	12.4(4)T, 12.4(3)	SP Svcs	3825 - 3845	Maximum of 1 in 3825, 3925, 3925E; 2 in 3845, 3945,3945E
NM-1A-T3/E3	Data	3925 - 3945E	12.4(15)T	SP Svcs	2811 - 3845	Maximum of 1 in 3825, 3925, 3925E; 2 in 3845, 3945,3945E
<b>Serial WAN Interface Modules</b>						
SM-X-1T3/E3	IP Base	2911 - 4451	IOS-XE3.9 for 4451 15.2(4)M4, 15.3(1)T2, 15.3(2)T1	IP Base	Not supported	Maximum of 1 in 2911, 2921 and 2951; 2 in 3925 and 3945
NM-1T3/E3	IP Base	2951 - 3945E	12.2(13)T	IP Base	2811 - 3845	Maximum of 1 in 2951, 3825,3925,3925E; 2 in 3845, 3945, 3945E
<b>Channelized T1/E1 and ISDN PRI Modules (Data Only)</b>						
NM-8CE1T1-PRI	IP Base	3925 - 3945E	12.4(20)T	IP Base	3825 - 3845	Maximum of 1 in 3825, 3845, 3925, 3925E, 3945, 3945E
<b>Ethernet Switch Modules</b>						
SM-ES2-16-P	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-ES3-16-P	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-ES3G-16-P	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-ES2-24	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-ES2-24-P	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-ES3-24-P	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-ES3G-24-P	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-D-ES2-48	IP Base	2921 - 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
SM-D-ES3-48-P	IP Base	2921 - 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
SM-D-ES3G-48-P	IP Base	2921 - 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
NM-16ESW	IP Base	2911 - 3945	12.2(8)T	IP Base	2811 - 3845	Tied to platform slot density
NM-16ESW-1GIG	IP Base	2911 - 3945	12.2(8)T	IP Base	2811 - 3845	Tied to platform slot density
NME-16ES-1G	IP Base	2911 - 3945E	12.4(3), 12.4(4)T	IP Base	2811 - 3845	Tied to platform slot density
NME-16ES-1G-P	IP Base	2911 - 3945E	12.4(1), 12.3(14)T	IP Base	2811 - 3845	Tied to platform slot density

<sup>1</sup> ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

SM, NM, NME, EVM	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>1</sup>	Supported Modules per Chassis
<b>Analog and Digital Voice/Fax Modules</b>						
<b>EVM-HD-8FXS/DID</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2821 - 3845	Max of 1 in 2821-3825,2911-2921.2 in 3845, 2951, 3925, 3925E, 4 in 3945, 3945E
<b>EM3-HDA-8FXS/DID</b>	Unif. Comm.	2911 - 3945E	12.4(20)T	IP Voice	2821 - 3845	Daughtercard for EVM-HD-8FXS/DID; maximum of 2 EM per EVM (any)
<b>EM-HDA-3FXS/4FXO</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2821 - 3845	Daughtercard for EVM-HD-8FXS/DID; maximum of 2 EM per EVM (any)
<b>EM-HDA-6FXO</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2821 - 3845	Daughtercard for EVM-HD-8FXS/DID; maximum of 2 EM per EVM (any)
<b>EM-4BRI-NT/TE</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2821 - 3845	Daughtercard for EVM-HD-8FXS/DID; maximum of 2 EM per EVM (any)
<b>NM-HD-1V</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2811 - 3845	Tied to platform slot density
<b>NM-HD-2V</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2811 - 3845	Tied to platform slot density
<b>NM-HD-2VE</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2811 - 3845	Tied to platform slot density
<b>NM-HDV2</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2811 - 3845	Tied to platform slot density
<b>NM-HDV2-1T1/E1</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2811 - 3845	Tied to platform slot density
<b>NM-HDV2-2T1/E1</b>	Unif. Comm.	2911 - 3945E	12.3(8)T4	IP Voice	2811 - 3845	Tied to platform slot density
<b>VPN and Security Modules</b>						
<b>ISM-VPN-39</b>	Security+HSEC Licenses	1941 - 3900	15.2(1)T1	-	1941 - 3925	1 supported per chassis
<b>ISM-VPN-29</b>	Security+HSEC Licenses	1941 - 3900	15.2(1)T1	-	1941 - 3925	1 supported per chassis
<b>ISM-VPN-19</b>	Security+HSEC Licenses	1941 - 3900	15.2(1)T1	-	1941 - 3925	1 supported per chassis
<b>NME-NAC-K9</b>	IP Base	2911 - 3945E	12.4(11)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
<b>NME-IPS-K9</b>	IP Base	2911 - 3945E	12.4(22)T	Adv. Sec	2811 - 3845	Maximum of 1 in supported platforms
<b>Wireless LAN Modules</b>						
<b>NME-AIR-WLC6-K9</b>	IP Base	2911 - 3945E	12.4(15)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
<b>NME-AIR-WLC12-K9</b>	IP Base	2911 - 3945E	12.4(15)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
<b>NME-AIR-WLC25-K9</b>	IP Base	2911 - 3945E	12.4(15)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
<b>Application Modules</b>						
<b>UCS-E160D-M1/K9</b>	IP Base	2921 - 3945E	15.2(4)M			Double wide blade occupies two service-module slots side by side
<b>UCS-E160DP-M1/K9</b>	IP Base	2921 - 3945E	15.2(4)M			Double wide blade occupies two service-module slots side by side
<b>UCS-E140D-M1/K9</b>	IP Base	2921 - 3945E	15.2(4)M			Double wide blade occupies two service-module slots side by side
<b>UCS-E140DP-M1/K9</b>	IP Base	2921 - 3945E	15.2(4)M			Double wide blade occupies two service-module slots side by side

SM, NM, NME, EVM	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>1</sup>	Supported Modules per Chassis
UCS-E140S-M1/K9	IP Base	2911 - 3945E	15.2(4)M			Single wide blade occupies a single service module slot
SM-SRE-700-K9	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
SM-SRE-900-K9	IP Base	2911 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
EVM-IPVS-16A	IP Base	2911 - 3945E	12.4(13)T	IP Base	2821 - 3845	Tied to platform slot density
NME-WAE-502-K9	IP Base	2911 - 3945	12.4(9)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
NME-NAM-80S	IP Base	2911 - 3945E	12.4(9)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
NME-NAM-120S	IP Base	2911 - 3945E	12.4(9)T	IP Base	2811 - 3845	Maximum of 1 in supported platforms
NME-CUE	IP Base	2911 - 3945E	12.4(9)T	IP Base	2811 - 3845	Tied to platform slot density
NME-UMG	IP Base	2911 - 3945E	12.4(15)T	IP Base	2811 - 3845	Tied to platform slot density
NME-UMG-EC	IP Base	2911 - 3945E	12.4(15)T	IP Base	2811 - 3845	Tied to platform slot density
NME-CUSP-522K9	IP Base	2951 - 3945E	12.4(22)T	IP Base	3825 - 3845	Tied to platform slot density
NME-APPRE-302-K9	IP Base	2911 - 3945E	12.4.15(T3)	IP Base	2811 - 3845	Tied to platform slot density
NME-APPRE-502-K9	IP Base	2911 - 3945E	12.4.15(T3)	IP Base	2811 - 3845	Tied to platform slot density
NME-APPRE-522-K9	IP Base	2951 - 3945E	12.4.15(T3)	IP Base	3825 - 3845	Tied to platform slot density

**Table 2.** Module Support on ISR and ISR G2 - WAN Interface Cards, Voice Interface Cards, Voice WAN Interface Cards

EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>2</sup>	Supported Modules per Chassis
<b>Serial WAN Interface Modules</b>						
HWIC-1T	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-2T	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-4T	IP Base	2901 - 3945E	12.3(14)T	IP Base	2801 - 3845	Tied to platform slot density
HWIC-1DSU-T1	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-4T1/E1	IP Base	2911 - 3945E	12.4(20)T	IP Base	2821 - 3845	Max of 1 on 2911, 2 on 2821-2851 & 2921-2951, 4 on 3800, 3900
<b>Serial Sync/Async Interface Modules</b>						
HWIC-2A/S	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-4A/S	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-8A/S-232	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-8A	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-16A	IP Base	2901 - 3945E	12.3(14)T	IP Base	2801 - 3845	Tied to platform slot density
SM-32A	IP Base	2911-3945E	15.1(4)M2, 15.2(1)T1, 15.2(2)T for Cisco 3900 Series 15.1(4)M3 for Cisco 2900 Series	IP Base	Not Supported	Tied to platform slot density

<sup>2</sup> ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>2</sup>	Supported Modules per Chassis
<b>Channelized T1/E1 and ISDN PRI Modules</b>						
HWIC-1CE1T1-PRI	IP Base	2911 - 3945E	12.4(20)T	IP Base	2811 - 3845	Tied to platform slot density
HWIC-2CE1T1-PRI	IP Base	2911 - 3945E	12.4(20)T	IP Base	2811 - 3845	Tied to platform slot density
<b>Multiflex Trunk Voice &amp; WAN Interface Cards</b>						
VWIC3-1MFT-T1/E1	IP Base	1921 - 3945E	15.0(1)M3, 15.1(2)T	-	Not supported	Tied to platform slot density
VWIC3-2MFT-T1/E1	IP Base	1921 - 3945E	15.0(1)M3, 15.2(1)T	-	Not supported	Tied to platform slot density
VWIC3-4MFT-T1/E1	IP Base	2911 - 3945E	15.1(3)T	-	Not supported	Tied to platform slot density
VWIC3-1MFT-G703	IP Base	1921 - 3945E	15.0(1)M3, 15.1(2)T	-	Not supported	Tied to platform slot density
VWIC3-2MFT-G703	IP Base	1921 - 3945E	15.0(1)M3, 15.1(2)T	-	Not supported	Tied to platform slot density
VWIC2-1MFT-T1/E1	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
VWIC2-2MFT-T1/E1	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
VWIC2-1MFT-G703	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
VWIC2-2MFT-G703	IP Base	1921 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
EC-MFT-32	IP Base	2901 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
EC-MFT-64	IP Base	2901 - 3945E	12.3(14)T	IP Base	1841 - 3845	Tied to platform slot density
<b>Analog Dialup Modules</b>						
WIC-1AM-V2	IP Base	1921 - 3945E	12.4(3), 12.4(4)T	IP Base	1841 - 3845	Tied to platform slot density
WIC-2AM-V2	IP Base	1921 - 3945E	12.4(3), 12.4(4)T	IP Base	1841 - 3845	Tied to platform slot density
<b>ISDN BRI Modules</b>						
WIC-1B-S/T-V3	IP Base	1921 - 3945	12.3(8)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-4B-S/T	IP Base	1921 - 3945E	12.4(20)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801, 1921-2901, 4 on 2811-3845, 2911-3945E
HWIC-1B-U	IP Base	1921 - 3945E	12.4(20)T, 12.4(16)	IP Base	1841 - 3845	Maximum of 2 on 1841-2801, 1921-2901, 4 on 2811-3845, 2911-3945E
<b>Broadband Modules</b>						
EHWIC-VA-DSL-A	IP Base	1921 - 3945	15.1(3)T	IP Base		Maximum of 2 on 1921-2901, 4 on 2911-3945E
EHWIC-VA-DSL-B	IP Base	1921 - 3945	15.1(3)T	IP Base		Maximum of 2 on 1921-2901, 4 on 2911-3945E
EHWIC-VA-DSL-M	IP Base	1921 - 3945	15.1(3)T	IP Base		Maximum of 2 on 1921-2901, 4 on 2911-3945E
HWIC-1ADSL	IP Base	1921 - 3945	12.4(4)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801, 1921-2901, 4 on 2811-3845, 2911-3945
HWIC-1ADSLI	IP Base	1921 - 3945	12.4(4)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801, 1921-2901, 4 on 2811-3845, 2911-3945
HWIC-1VDSL	IP Base	1921 - 3945E	15.1(1)T	-	Not supported	Maximum of 2 on 1921-2901, 4 on 2911-3945E
HWIC-ADSL-B/ST	IP Base	1921 - 3945E	12.4(6)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801, 1921-2901, 4 on 2811-3845, 2911-3945E
HWIC-ADSLI-B/ST	IP Base	1921 - 3945E	12.4(6)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801, 1921-2901, 4 on 2811-3845, 2911-3945E

EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>2</sup>	Supported Modules per Chassis
HWIC-1ADSL-M	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801,1921-2901, 4 on 2811-3845, 2911-3945E
HWIC-2SHDSL	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801,1921-2901, 4 on 2811-3845, 2911-3945E
HWIC-4SHDSL	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801,1921-2901, 4 on 2811-3845, 2911-3945E
HWIC-4SHDSL-E	IP Base	1921 - 3945E	15.1(1)T	IP Base	See note to right	Not supported on 2811 & 3845. Max of 2 on 1841-2801,1921-2901, 4 on 2811-3845, 2911-3945E
HWIC-CABLE-D-2	IP Base	1921	12.4(11)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801,1921, 4 on 2811-3845
HWIC-CABLE-E/J-2	IP Base	1921	12.4(11)T	IP Base	1841 - 3845	Maximum of 2 on 1841-2801,1921, 4 on 2811-3845
<b>Ethernet Routed-Port Modules</b>						
SM-2GE-SFP-CU	IP Base	3925 - 3945E	15.1(4)M3 or 15.2(3)T	IP Base		Tied to platform slot density
EHWIC-1GE-SFP-CU	IP Base	1921 - 3945E	15.1(4)M	IP Base		Max of 1 on 1921, 2 on 1941, 2 on 2901-2951, 4 on 3925-3945, 3 on 3925E-3945E
HWIC-1FE	IP Base	1921 - 3945E	12.4(15)T	IP Base	1841 - 3845	Maximum of 1 on 1841, 1921,2 on 2811-2851, 2911-2951, 4 on 3800 & 3900
HWIC-2FE	IP Base	1921 - 3945E	12.4(15)T9, 12.4(20)T	IP Base	1841 - 3845	Maximum of 1 on 1841, 1921,2 on 2811-2851, 2911-2951, 4 on 3800 & 3900
HWIC-1GE-SFP	IP Base	1921 - 3945E	12.3(8)T4	IP Base	1841 - 3845	Max of 1 on 1841-2851, 1921-1941, 2 on 2901-2951, 3825-3845, 4 on 3925-3945, 3 on 3925E-3945E
<b>Ethernet Switch Modules</b>						
EHWIC-D-8ESG-P	IP Base	1921 - 3945E	15.1(2)T	IP Base		Maximum of 1 on 1921-1941, 2901, 3925E-3945E, 2 on 2911-3945
EHWIC-D-8ESG	IP Base	1921 - 3945E	15.1(2)T	IP Base		Maximum of 1 on 1921-1941, 2901, 3925E-3945E, 2 on 2911-3945
EHWIC-4ESG-P	IP Base	1921 - 3945E	15.1(2)T	IP Base		Maximum of 1 on 1921, 2 on 1941-3945E
EHWIC-4ESG	IP Base	1921 - 3945E	15.1(2)T	IP Base		Maximum of 1 on 1921, 2 on 1941-3945E
HWIC-4ESW	IP Base	1921 - 3945E	12.3(8)T	IP Base	1841 - 3845	Maximum of 2 on 1841-3845, 1921-3945E. Not supported on 1941W
HWIC-4ESW-POE	IP Base	1921 - 3945E	12.3(8)T	IP Base	1841 - 3845	Maximum of 2 on 1841-3845, 1921-3945E. Not supported on 1941W
HWIC-D-9ESW	IP Base	1921 - 3945E	12.3(8)T	IP Base	2801 - 3845	Max of 1 on 1921-1941, 3925E-3945E, Max of 2 on 2801-3845, 2901-3945. Not supported on 1941W
HWIC-D-9ESW-POE	IP Base	1921 - 3945E	12.3(8)T	IP Base	2801 - 3845	Max of 1 on 1921-1941, 3925E-3945E, Max of 2 on 2801-3845, 2901-3945. Not supported on 1941W

EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>2</sup>	Supported Modules per Chassis
<b>Voice Interface Cards</b>						
VIC3-2FXS/DID	Unif. Comm.	2901 - 3945E	12.4(20)T	IP Voice	2801 - 3845	Tied to platform slot density
VIC3-2FXS-E/DID	Unif. Comm.	2901 - 3945E	12.4(20)T	IP Voice	2801 - 3845	Tied to platform slot density
VIC3-4FXS/DID	Unif. Comm.	2901 - 3945E	12.4(20)T	IP Voice	2801 - 3845	Tied to platform slot density
VIC3-2E/M	Unif. Comm.	2901 - 3945E	12.4(20)T	IP Voice	2801 - 3845	Tied to platform slot density
VIC2-2BRI-NT/TE	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
VIC2-2FXO	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
VIC2-4FXO	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
<b>Wireless WAN Modules</b>						
EHWIC-4G-LTE-A	IP Base	1900 - 3900	15.2(4)M	IP Base		Tied to platform slot density
EHWIC-4G-LTE-G	IP Base	1900 - 3900	15.2(4)M	IP Base		Tied to platform slot density
EHWIC-4G-LTE-V	IP Base	1921 - 3945E	15.1(4)M1	IP Base		Tied to platform slot density
EHWIC-3G-HSPA+7	IP Base	1900 - 3900	15.1(4)M	IP Base		Tied to platform slot density
EHWIC-3G-HSPA+7-A	IP Base	1900 - 3900	15.1(4)M	IP Base		Tied to platform slot density
EHWIC-3G-HSPA-U	IP Base	1921 - 3945E	15.1(3)T	IP Base		Tied to platform slot density
EHWIC-3G-EVDO-V	IP Base	1921 - 3945E	15.1(3)T	IP Base		Tied to platform slot density
EHWIC-3G-EVDO-S	IP Base	1921 - 3945E	15.1(3)T	IP Base		Tied to platform slot density
EHWIC-3G-EVDO-B	IP Base	1921 - 3945E	15.1(3)T	IP Base		Tied to platform slot density
HWIC-3G-HSPA-G	IP Base	1921 - 3945E	15.1(1)T	IP Base	1841 - 3845	Tied to platform slot density
HWIC-3G-HSPA	IP Base	1921 - 3945E	15.0(1)M	IP Base	1841 - 3845	Tied to platform slot density
HWIC-3G-HSPA-A	IP Base	1921 - 3945E	15.1(1)T1	IP Base	1841 - 3845	Tied to platform slot density
HWIC-3G-CDMA-V	IP Base	1921 - 3945E	12.4(15)T8	IP Base	1841 - 3845	Tied to platform slot density
HWIC-3G-CDMA-S	IP Base	1921 - 3945E	15.0(1)M1	IP Base	1841 - 3845	Tied to platform slot density
HWIC-3G-CDMA-T	IP Base	1921 - 3945E	15.0(1)M	IP Base	1841 - 3845	Tied to platform slot density
HWIC-3G-CDMA-B	IP Base	1921 - 3945E	15.0(1)M	IP Base	1841 - 3845	Tied to platform slot density
<ul style="list-style-type: none"> <li>• A complete list of supported modules, including a list of supported SFPs for the Cisco 1900 Series, is available at: <a href="http://www.cisco.com/en/US/products/ps10538/products_relevant_interfaces_and_modules.html">http://www.cisco.com/en/US/products/ps10538/products_relevant_interfaces_and_modules.html</a></li> <li>• A complete list of supported modules, including a list of supported SFPs for the Cisco 2900 Series, is available at: <a href="http://www.cisco.com/en/US/products/ps10537/products_relevant_interfaces_and_modules.html">http://www.cisco.com/en/US/products/ps10537/products_relevant_interfaces_and_modules.html</a></li> <li>• A complete list of supported modules, including a list of supported SFPs for the Cisco 3900 Series, is available at: <a href="http://www.cisco.com/en/US/products/ps10536/products_relevant_interfaces_and_modules.html">http://www.cisco.com/en/US/products/ps10536/products_relevant_interfaces_and_modules.html</a></li> </ul>						

**Table 3.** Module Support on ISR and ISR G2 - PVDMS, Internal Service Modules, SFPs for Onboard Ethernet Ports

PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>3</sup>	Supported Modules per Chassis
<b>Digital Modem Modules</b>						
PVDM2-12DM	IP Base	2911 - 3945	12.4(9)T	IP Base	2811 - 3845	Tied to platform slot density
PVDM2-24DM	IP Base	2911 - 3945	12.4(9)T	IP Base	2811 - 3845	Tied to platform slot density
PVDM2-36DM	IP Base	2911 - 3945	12.4(9)T	IP Base	2811 - 3845	Tied to platform slot density

<sup>3</sup> ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>3</sup>	Supported Modules per Chassis
<b>Packet Voice Digital Signal Processor Modules</b>						
PVDM3-16	Unif. Comm.	2901 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
PVDM3-32	Unif. Comm.	2901 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
PVDM3-64	Unif. Comm.	2901 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
PVDM3-128	Unif. Comm.	2901 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
PVDM3-192	Unif. Comm.	2901 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
PVDM3-256	Unif. Comm.	2901 - 3945E	15.0(1)M	-	Not Supported	Tied to platform slot density
PVDM2-8	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
PVDM2-16	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
PVDM2-32	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
PVDM2-48	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
PVDM2-64	Unif. Comm.	2901 - 3945E	12.3(8)T4	IP Voice	2801 - 3845	Tied to platform slot density
<b>Application Modules</b>						
ISM-SRE-300-K9	IP Base	1941 - 3945	15.0(1)M	-	Not Supported	Maximum of 1 across the portfolio, Not supported on 3925E, 3945E
<b>Small Form-Factor Pluggable Modules</b>						
GLC-LH-SM	IP Base	2921 - 3945E	12.3(11)T		3825 - 3845	Tied to platform GE SFP port density
GLC-SX-MM	IP Base	2921 - 3945E	12.3(11)T		3825 - 3845	Tied to platform GE SFP port density
GLC-ZX-SM	IP Base	2921 - 3945E	12.3(11)T		3825 - 3845	Tied to platform GE SFP port density
GLC-FE-100FX	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-FE-100LX	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-FE-100ZX	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-FE-100EX	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-GE-100FX	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-BX-D	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-BX-U	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-SX-MMD	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
GLC-LH-SMD	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1470	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1490	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1510	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1530	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1550	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density

PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>3</sup>	Supported Modules per Chassis
CWDM-SFP-1570	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1590	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
CWDM-SFP-1610	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3033	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3112	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3190	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3268	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3425	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3504	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3582	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3661	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3819	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3898	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-3977	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4056	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4214	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4294	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4373	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4453	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4612	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4692	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4772	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-4851	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5012	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5092	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5172	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5252	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density



PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on <sup>3</sup>	Supported Modules per Chassis
DWDM-SFP-5413	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5494	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5575	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5655	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5817	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5898	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-5979	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
DWDM-SFP-6061	IP Base	2921 - 3945E	15.0(1)M		Not Supported	Tied to platform GE SFP port density
<b>USB Flash Storage Modules</b>						
MEMUSB-1024FT	IP Base	1921 - 3945E	15.0(1)M	-	Not Supported	Tied to platform USB slot density

**Table 4.** Module Support on Cisco 1861 ISR - HWICs

HWIC, WIC, VIC, VWIC	IOS Image for 1861 ISR Support	IOS Version that introduced support on 1861 ISR
<b>Serial WAN &amp; T1/E1 Interface Modules</b>		
HWIC-1SER	SP Services	12.4(20)T
HWIC-2SER	SP Services	12.4(20)T
HWIC-1T1/E1	SP Services	12.4(20)T
<b>Broadband Modules</b>		
HWIC-1ADSL	SP Services	12.4(20)T
HWIC-1ADSLI	SP Services	12.4(20)T
HWIC-ADSL-B/ST	SP Services	12.4(20)T
HWIC-ADSLI-B/ST	SP Services	12.4(20)T
HWIC-1ADSL-M	SP Services	12.4(20)T
HWIC-2SHDSL	SP Services	12.4(20)T
HWIC-4SHDSL	SP Services	12.4(20)T
HWIC-CABLE-D-2	SP Services	12.4(20)T
HWIC-CABLE-E/J-2	SP Services	12.4(20)T
<b>Ethernet Routed-Port Modules</b>		
HWIC-1FE	SP Services	12.4(20)T3
HWIC-2FE	SP Services	12.4(20)T3
HWIC-1GE-SFP	SP Services	12.4(20)T3
<b>Wireless WAN Modules</b>		
HWIC-3G-HSPA-G	SP Services	15.0(1)M
HWIC-3G-CDMA-V	SP Services	12.4(15)T8
HWIC-3G-CDMA-S	SP Services	15.0(1)M1
HWIC-3G-CDMA-T	SP Services	15.0(1)M1
HWIC-3G-CDMA-B	SP Services	15.0(1)M1

**Table 5.** Unsupported Modules on ISR G2 - Cisco 1900, 2900 and 3900 Series Routers

Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
VWIC-1MFT-T1	VWIC2-1MFT-T1/E1	EoS Sept 2008
VWIC-1MFT-E1	VWIC2-1MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-T1	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-E1	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-1MFT-G703	VWIC2-1MFT-G703	EoS Sept 2008
VWIC-2MFT-G703	VWIC2-2MFT-G703	EoS Sept 2008
VWIC-2MFT-T1-DI	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-E1-DI	VWIC2-2MFT-T1/E1	EoS Sept 2008
VIC2-2E/M	VIC3-2E/M	EoS June 2009
VIC2-2FXS	VIC3-2FXS/DID, VIC3-2FXS-E/DID	EoS June 2009
VIC-2DID	VIC3-2FXS/DID, VIC3-2FXS-E/DID	EoS June 2009
VIC-4FXS/DID	VIC3-4FXS/DID	EoS July 2010
WIC-1B-U-V2	HWIC-1B-U	EoS Aug 2009
WIC-1ADSL	HWIC-1ADSL, HWIC-1ADSLI	EoS Nov 2009
WIC-1ADSL-DG	HWIC-1ADSL, HWIC-1ADSLI	EoS March 2008
WIC-1ADSL-I-DG	HWIC-1ADSL, HWIC-1ADSLI	EoS March 2008
WIC-1SHDSL-V2	HWIC-2SHDSL, HWIC-4SHDSL	EoS March 2006
WIC-1SHDSL-V3	HWIC-2SHDSL, HWIC-4SHDSL	EoS June 2010
WIC-1T	HWIC-1T	EoS Dec 2009
WIC-2T	HWIC-2T	EoS Dec 2009
WIC-2A/S	HWIC-2A/S	EoS Dec 2009
WIC-1DSU-T1-V2	HWIC-1DSU-T1	EoS Dec 2009
WIC-1DSU-56K4	HWIC-1DSU-56K4	EoS Dec 2011
HWIC-AP-AG-A	Cisco 1941W	EoS June 2007
HWIC-AP-AG-B	Cisco 1941W	EoS Dec 2011
HWIC-AP-AG-E	Cisco 1941W	EoS April 2009
HWIC-AP-AG-P	Cisco 1941W	EoS Dec 2011
HWIC-AP-AG-N	Cisco 1941W	EoS Dec 2011
HWIC-AP-G-A	Cisco 1941W	EoS Dec 2011
HWIC-AP-G-E	Cisco 1941W	EoS Dec 2011
HWIC-AP-G-J	Cisco 1941W	EoS Dec 2011
AIM-VPN/SSL-1	on-board HW crypto acceleration on ISR G2	No AIMS supported on ISR G2
AIM-VPN/SSL-2	on-board HW crypto acceleration on ISR G2	No AIMS supported on ISR G2
AIM-VPN/SSL-3	on-board HW crypto acceleration on ISR G2	No AIMS supported on ISR G2
AIM-VPN/BPII-PLUS	on-board HW crypto acceleration on ISR G2	No AIMS supported on ISR G2
AIM-VPN/EPII-PLUS	on-board HW crypto acceleration on ISR G2	No AIMS supported on ISR G2
AIM-VPN/HPII-PLUS	on-board HW crypto acceleration on router	No AIMS supported on ISR G2
AIM-ATM	None	No AIMS supported on ISR G2
AIM-COMPR4	None	No AIMS supported on ISR G2
AIM-APPRE-102-K9	ISM-SRE-300-K9	No AIMS supported on ISR G2
AIM-IPS-K9	NME-IPS-K9	No AIMS supported on ISR G2
AIM-TPO-1	NME-WAE-502	No AIMS supported on ISR G2

Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
AIM-TPO-2	NME-WAE-502	No AIMs supported on ISR G2
EM-HDA-8FXS	EM3-HDA-8FXS/DID	EoS July 2010
EM-HDA-4FXO	EM-HDA-6FXO	EoS July 2010
EM2-HDA-4FXO	EM-HDA-6FXO	EoS July 2010
PVDM-12	PVDM2-16, PVDM3-16	EoS Sept 2006
DSP-HDA-16	PVDM2-16, PVDM3-16	EoS Oct 2010
NM-8AM-V2	WIC-1AM-V2	EoS Aug 2009
NM-16AM-V2	WIC-2AM-V2	EoS Aug 2009
NM-6DM	PVDM2-12DM	EoS March 2007
NM-12DM	PVDM2-12DM	EoS March 2007
NM-18DM	PVDM2-24DM	EoS March 2007
NM-24DM	PVDM2-24DM	EoS March 2007
NM-30DM	PVDM2-36DM	EoS March 2007
NM-4B-S/T	HWIC-4B-S/T	EoS Aug 2009
NM-8B-S/T	HWIC-4B-S/T	EoS Aug 2009
NM-4B-U	HWIC-1B-U	EoS April 2009
NM-8B-U	HWIC-1B-U	EoS April 2009
NM-4A/S	HWIC-4A/S	EoS Sept 2008
NM-8A/S	HWIC-8A/S-232	EoS Sept 2008
NM-16A/S	HWIC-8A/S-232	EoS Nov 2009
NM-4T	HWIC-4T	EoS Dec 2011
NM-16A	HWIC-16A	EoS Sept 2009
NM-32A	HWIC-16A	EoS Sept 2009
NM-1CE1T1-PRI	HWIC-1CE1T1-PRI	EoS Dec 2008
NM-2CE1T1-PRI	HWIC-2CE1T1-PRI	EoS Dec 2008
NM-1HSSI	NM-1T3/E3	EoS Dec 2008
NM-1A-T3	NM-1A-T3/E3	EoS Nov 2008
NM-1A-E3	NM-1A-T3/E3	EoS Nov 2008
NM-16ESW-PWR	SM-ES2-16-P	EoS Oct 2008
NM-16ESW-PWR-1GIG	SM-ES2-16-P	EoS Oct 2008
NME-X-23ES-1G-P	SM-ES3-24-P, SM-ES3G-24-P	EoS Dec 2011
NME-XD-24ES-2S-P	SM-ES3-24-P	EoS Apr 2010
NME-XD-48ES-2S-P	SM-D-ES3-48-P	EoS Dec 2011
NM-CE-BP-40G-K9	NME-WAE-302-K9	EoS April 2008
NM-CE-BP-80G-K9	NME-WAE-502-K9	EoS April 2008
NM-AIR-WLC6-K9	NME-AIR-WLC8-K9	EoS Feb 2008
NM-CIDS-K9	NME-IPS-K9	EoS Feb 2008
NM-NAM	NME-NAM-80S	EoS October 2007
NM-CUE	NME-CUE	EoS April 2008
NM-CUE-EC	NME-CUE	EoS April 2008
NME-TPO	NME-WAE-522	EoS Dec 2009
NME-VMSS-16	None at FCS	EoS Sept 2010
NME-VMSS-HP16	None at FCS	EoS Sept 2010
NME-VMSS-HP32	None at FCS	EoS Sept 2010

Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
<b>NME-WAE-302-K9</b>	NME-WAE-502-K9	EoS Dec 2011
<b>NME-WAE-522-K9</b>	NME-WAE-502-K9	EoS Dec 2011
<b>NME-APA-E2</b>	None	EoS Jan 2010
<b>NME-APA-E3</b>	None	EoS Jan 2010
<b>NM-AON-K9</b>	None	EoS Oct 2007
<b>NME-AON-K9</b>	None	EoS Jan 2010
<b>NM-1FE-FX-V2</b>	Onboard ISR G2 SFP ports on 2921-3945E	Onboard ISR G2 SFP ports on 2921-3945E
<b>NM-1GE</b>	HWIC-1GE-SFP	Onboard ISR G2 ports support Gigabit Ethernet
<b>NM-2W</b>	None	EoS Dec 2011
<b>NM-1FE1R2W</b>	None	EoS May 2011
<b>NM-1FE2W-V2</b>	None	EoS May 2011
<b>NM-2FE2W-V2</b>	None	EoS May 2011
<b>NM-1VSAT-GILAT</b>	None	EoS Dec 2011
<b>NM-CEM-4SER</b>	None	EoS Apr 2010
<b>NM-CEM-4TE1</b>	None	EoS Apr 2010
<b>NM-AIC-64</b>	None	EoS Oct 2005
<b>NM-HDV (all SKUs)</b>	NM-HDV2	EoS Sept 2006
<b>NM-HDA-4FXS</b>	EVM-HD-8FXS/DID	EoS July 2010
<b>NM-4T1-IMA, NM-4E1-IMA</b>	AIM-ATM-4T1/E1 (on 2811 - 3845)	EoS March 2004
<b>NM-8T1-IMA, NM-8E1-IMA</b>	AIM-ATM-4T1/E1 (on 2811 - 3845)	EoS March 2004
<b>MEMUSB-64FT</b>	MEMUSB-1024FT	EoS Feb 2010
<b>MEMUSB-128FT</b>	MEMUSB-1024FT	EoS Feb 2010
<b>MEMUSB-256FT</b>	MEMUSB-1024FT	EoS Feb 2010



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