



Integra Series

LATEST CHIPSET TECHNOLOGY



10 Gbps
capacity



Full XPIC
solution



up to
112 MHz



up to
4096 QAM



Integra-G/-W 6-13GHz body



Integra-W 17/24GHz body



Integra-G/-W 15-38GHz body



Integra-E/-X body

Integra-G

Integra-W

Capacity	ETSI	up to 1Gbps with HC	883 Mbps at 112MHz 1024QAM
	FCC	up to 1Gbps with HC	643 Mbps at 80MHz 1024QAM
Frequency bands	6GHz, 7GHz, 8GHz, 11GHz, 13GHz, 15GHz, 17GHz UL, 18GHz, 23GHz, 24GHz UL, 25GHz, 26GHz, 28GHz, 38GHz, and more*		
Max modulation	2048QAM		1024QAM
Configurations	1+0, 2+0 link bonding, 1+1*		1+0
Channel bandwidth	ETSI	from 3.5MHz up to 56MHz, up to 472 Mbps	from 56MHz up to 112MHz
	FCC	from 5MHz up to 60MHz, up to 491 Mbps	from 40MHz up to 80MHz
Gigabit Ethernet	RJx45	1x Electrical with built-in PoE splitter and surge arrestor	2x Electrical with built-in PoE splitter and surge arrestor
	SFP	2x Fibre Optics	1x Alternative to 1x RJx45
Service ports	3.5mm	Audible alignment and RSSI	
	USB B	RS232 serial over USB B-Type	
	LED	Power On, Link Synchronization, RSL, Polarization accuracy*	
Ethernet type	Built-in Carrier Ethernet 10 Gigabit Switch		Unmanaged Gigabit Ethernet
Gigabit Switch functionality	802.1Q VLANs with QoS/CoS incl. WRED*, shaping, DWRR and on MPLS-TP exp bit; Spanning Tree Protocol, Jumbo frames and more*		Transparent
Management	In-band MNG over same ETH port; SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol		In-band*, Out-of-band; SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol
Carrier Ethernet functionality	Provider Bridging, MEF9&14, High Efficiency Header Compression, OAM*		Transparent
Performance monitoring	Performance graphs, constellation diagram, alarms, detailed counters		
Antenna type	External antenna		
Form factor	6-13 GHz	280 x 437 x 100 mm / 11.02" x 17.2" x 3.9", 6.5 kg / 14.3 lbs	
	15-38 GHz	235 x 250 x 72 mm / 9.26" x 9.85" x 2.84", 2.9 kg / 6.4 lbs	
	17/24 GHz	-	235 x 250 x 72 mm / 9.26" x 9.85" x 4.37", 4.9 kg / 10.8 lbs
Temperature range	-33...+55 °C / -28...+130 °F		

* Please contact SAF Tehnika representative for more information

Integra-E

Integra-X

Capacity	Up to 10 Gbps at 2000 MHz		Up to 2.2 Gbps at 2x 112 MHz 4096QAM
Frequency bands	71 - 76 GHz paired with 81 - 86 GHz		6, 11 and 18 GHz. All licensed bands up to 38 GHz*
Max modulation	128QAM		4096QAM
Configurations	1+0		1+0, 2+0 XPIC
Channel bandwidth	62.5, 125, 250, 500, 1000, 2000 MHz		5 to 112 MHz
Gigabit Ethernet	1x RJx45	Gigabit Ethernet (auto 10/100/1000 Mbps) electrical port, PoE capable with built-in surge arrestor	
	2x SFP	SFP+ for Fiber Optics (1, 2.5 and 10 Gbps speed supported)	
Service ports	3.5mm	Audible alignment and RSSI	
	USB B	RS232 serial over USB B-Type	
	LED	LED Power On, Link Synchronization, RSL	
Ethernet type	Built-in Carrier Ethernet 10 Gigabit Switch, switching capacity up to 50 Gbps		
Gigabit Switch functionality	802.1Q VLANs with QoS/CoS incl. WRED*, shaping, DWRR and on MPLS-TP exp. bit; Spanning Tree Protocol*, Jumbo frames and more*		
Management	SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol. In-band Management over same ETH port. Out-band Management is configurable using VLANs.		
Carrier Ethernet functionality	Provider Bridging, MEF9&14, OAM*		
Performance monitoring	Performance graphs, constellation diagram, alarms, detailed counters		
Antenna type	External antenna		
Form factor	280 x 437 x 100 mm / 11.02" x 17.2" x 3.9" 6.5 kg / 14.3 lbs		280 x 437 x 100 mm / 11.02" x 17.2" x 3.9" 8.5 kg / 18.7 lbs
Temperature range	-33...+55 °C / -28...+130 °F		

* Please contact SAF Tehnika representative for more information

SAF NMS



SAF NMS is a good-quality toolset consisting of software, used to monitor and administer a network, made of SAF Tehnika designed microwave radio equipment, in a convenient and user-friendly manner.

SAF NMS provides the following functionality:

- Easy-to-use graphical user interface (including WEB GUI & Android app)
- Configuration and management of SAF network elements
- Actual network status
- Online events and fault notifications, real-time performance and statistics graphs
- Northbound interface for integration with higher level application monitoring systems
- Secure access (including SNMPv3 support)
- Redundant backup server support
- FCAPS compliance



For more detailed information about SAF Tehnika products visit www.saftehnika.com or contact your SAF Tehnika representative info@saftehnika.com
Product features may vary between different models and configurations. They are subject to change without prior notice.