

Hypercable



Integral G most powerful modem yet with 3.5MHz to 60MHz channel bandwidth and up to 2048QAM modulation support for universal network upgrades in a compact integrated design. Full outdoor unit includes radio, modem, Ethernet network processor, PoE splitter with surge arrestor and integrated antenna in a single hardware design. Direct radio and antenna integration guarantees weather-proof factory sealing and fast installation. Carefully selected materials for best corrosion resistance and simplified installation with a 50% weight reduction compared to other microwave systems. Built-in protected 2+0 layer 1 link bonding provides double capacity up to 982 Mbps and up to 1Gbps with header compression.

HyperBridge integral-G

Faisceau Hertzien Micro-Ondes à haut niveau d'intégration.
integrated carrier-grade microwave radio, delivering up to 1 Gbps.

Capacity	up to 1Gbps with HC
Frequency bands	15GHz, 17GHz UL, 18GHz, 23GHz, 24GHz UL, 25GHz, 26GHz, 28GHz, 38GHz, and more*
Modulation	4QAM / 16QAM / 32QAM / 64QAM / 128QAM / 256QAM / 512QAM / 1024QAM / 2048QAM with Hitless ACM
Configurations	1+0, 2+0 link bonding, 1+1*
Channel bandwidth	
ETSI	from 3.5MHz up to 56MHz, up to 472 Mbps
FCC	from 5MHz up to 60MHz, up to 491 Mbps
Gigabit Ethernet	
1x RJx45	Electrical with built-in PoE splitter and surge arrestor
2x SFP	Fibre Optics
Service ports	
3.5mm	Audible alignment and RSSI
USB B-Type	Terminal Access
LED	Power On, Link Synchronization, RSL, Polarization accuracy
Managed 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	In-band MNG over same ETH port; SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol
Carrier Ethernet functionality	Provider Bridging, MEF9&14, High Efficiency Header Compression, OAM*
Performance monitoring	Performance graphs, constellation diagram, alarms, detailed counters
Antenna type	Integrated antenna 0.3m / 1ft, 0.6m / 2ft
Form factor	Size 0.3m w/o mount 378x378x227 mm; <5kg Size 0.6m w/o mount 669x669x289 mm; <5kg
Temperature range	-33 ... +55 °C / -28 ... +130 °F

integral-G is an unbelievably light, energy efficient carrier-grade system that exemplifies an outstanding return on smart engineering - the synergy of high competence in radio electronics and materials science. Integration of next generation microwave radio with high and super high performance antennas into a single unit. It translates into a lower total cost of ownership, as well as less time spent on the installation site, and better reliability of the link even in densely served areas.