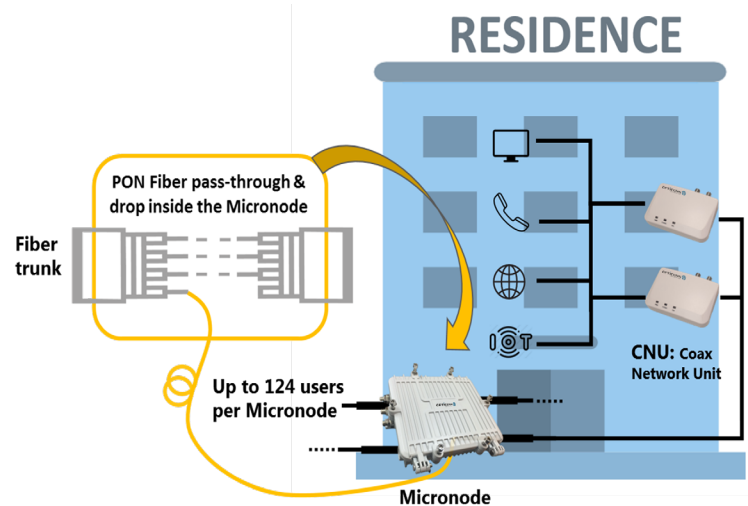


Fi-Speed Micronode

(Fiber Speeds over Coax)



Features

- MoCA Access technology of 2.5 Gbps of data throughput makes it the perfect solution to deliver high quality 4K video, VOD, IPTV, VOIP, OTT and any other service over the internet
- Optional 1G, 10GE or PON uplink per Fi-Speed Micronode
- “Daisy Chain” PON pass-through connecting multiple micronodes
- Rugged, robust outdoor/indoor housing
- 4 port Fi-Speed Micronode uses MoCA Access technology to connect up to 124 Fi-Speed-CNU-xx with existing coax cabling to deliver 2.5G to the home (no need to install additional wiring)
- Operational frequency D-Band (1125-1625 MHz) eliminating interference with CATV signals
- Optional “Intelligent Power” over coax providing reverse power to remotely power Fi-Speed Micronodes over same coax cable
- Fully remote manageable through intuitive remote management software

Fi-Speed Micronode is the future of HFC networks. Fi-Speed-2.5G-MN-xx utilizes MoCA Access technology to deliver 2.5G of data throughput using existing coax cabling to each MDU/home. Each Fi-Speed Micronode connects a 10 Gbps Ethernet/PON uplink and distributes 2.5G on up to 4 coax outputs over a distance of 3 football fields (275 meters) connecting up to 124 Fi-Speed-CNU's (modems) at the homes. There are numerous advantages to using Fi-Speed to deliver broadband in your networks: Provides very low latency (< 3ms coax+fiber round trip), it's a more reliable stable connection using wired connections, very high data throughput of 2.5 Gbps (fiber speeds over coax), easy set-up/plug & play and no need to dig or install new cabling to the home. MoCA Access technology delivers a reliable, error free, multi gigabit network connection to accommodate simultaneous connected devices such as mobile phones, tablets, laptops, desktop computers, 4K streaming media players, 4K smart TV's, gaming consoles, as well as any other devices for VOIP, IPTV, OTT and VOD services. Fi-Speed Micronodes are built rugged and robust for indoor or outdoor installation. Fi-Speed Micronode has no need to have power installed at the node, but can be powered remotely by CNU's. Fi-Speed is ideal solution to deliver fast and cost effective high speed broadband to any home!

FI-SPEED-2.5G-MN-XX

MoCA Access Micronode

Models

Model	Description
FISpeed-2.5-MN-1	MoCA Access Micronode, 1 MoCA port, Coax F-connection, Powered with XX VDC, Rugged aluminum indoor or outdoor enclosure
FISpeed-2.5-MN-2	MoCA Access Micronode, 2 MoCA ports, Coax F-connections, Powered with XX VDC, Rugged aluminum indoor or outdoor enclosure
FISpeed-2.5-MN-4	MoCA Access Micronode, 4 MoCA ports, Coax F-connections, Powered with XX VDC, Rugged aluminum indoor or outdoor enclosure
FISpeed-2.5-MN-1-RP	MoCA Access Micronode, 1 MoCA port, Coax F-connection, Powered by reverse power, Rugged aluminum indoor or outdoor enclosure
FISpeed-2.5-MN-2-RP	MoCA Access Micronode, 2 MoCA ports, Coax F-connections, Powered by reverse power, Rugged aluminum indoor or outdoor enclosure
FISpeed-2.5-MN-4-RP	MoCA Access Micronode, 4 MoCA ports, Coax F-connections, Powered by reverse power, Rugged aluminum indoor or outdoor enclosure

Specifications

PON Specifications	
Uplink	2.5G (ITU G.984) *1480-1500nm downstream *1260-1310nm burst upstream 10G EPON 802.3av (A/Symmetric: 10/1 or 10/10) XG-PON (10/2.5) XGS-PON (10/10) NG-PON2 ITU G.989 (TWDM 4 x 10/10) *1575-1580/1596-1603nm downstream *1260-1280/1524-1544nm burst upstream
OSS Telco/MSO compliant	TR069/DOCSIS
Power Saving Mode	SIEPON
Uplink Connection	Future Proof SFP Cage (i.e. host any PON MDU ONT)
MoCA Specifications	
Standard	MoCA Access 1 port = 31 CNU's 2 ports= 62 CNU's 4 ports= 124 CNU's
Modulation	Adaptive OFDM up/down
Carrier Frequency	Default: D-Band, 1125-1675 MHz Tunable RF Band: 400 MHz to 1.7 GHz (500 MHz band)
Connector	F (75 Ohm)
Error Correction	LDPC
Distance	300 yards/275 meters
Performance	Max speeds up to 43 dB Rate adaptive up to 75 dB
Mechanical Specification	
Enclosure type	Rugged, Aluminum
Power Specifications	
Power Supply	12 VDC
Environmental Specifications	
Operating Temperature	-40 to 85 C