

Proscend 190-T



Description

Proscend 190-T is a compact G.fast SFP (Small Form-factor Pluggable) modem with electrical interface specified by a MSA (Multi-Source Agreement) that can be integrated with any switch/router platform and end devices.

Proscend 190-T G.fast SFP modem complies with the ITU-T G.9701/ G.9700 G.fast standard which can deliver data rate up to 1Gbps. This G.fast SFP can be easily plugged into any CPE Gateway which has a SFP cage on board. In order to be recognized by the host device after inserting to SFP slot, **Proscend 190-T** G.fast SFP follows SFF-8472 first 128 byte format and let Host to read these 128 bytes information prior to loading the program into SFP device through 2-wire I2C interface.

Proscend 190-T SFP has an ultra-low power dissipation design in a small form factor SFP package and it can co-exist with legacy xDSL deployments using programmable bandwidth and PSD which allows Service Providers to offer different access technology within One Box. Realizing the modulation of broadband access technology will help ISPs prevent any possible increase on the management cost. On the other hand, using the same user interface will make the upgrade easier and more attractive to end users.

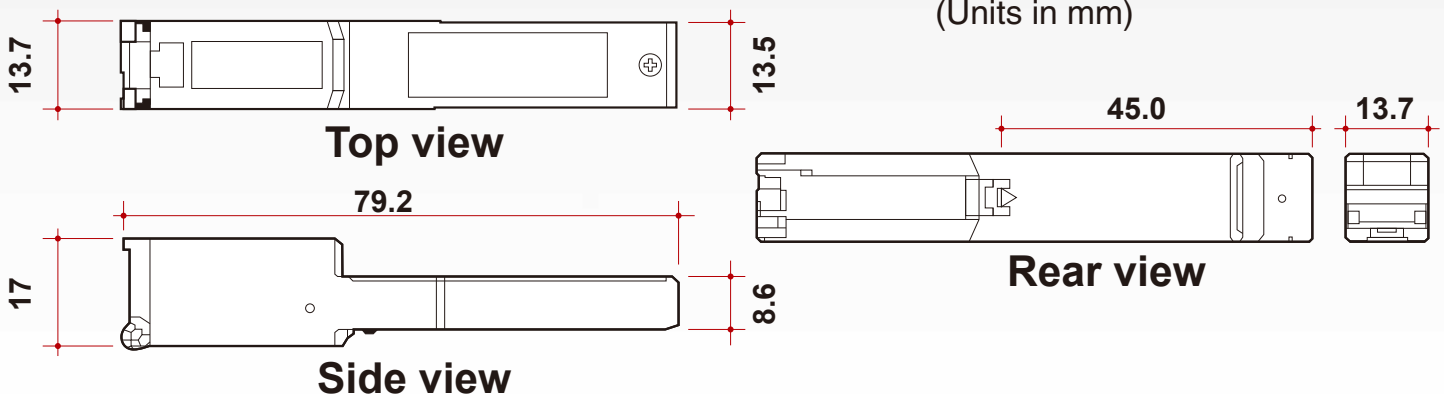
Proscend 190-T SFP completes the One Box solution for broadband access which enables users to upgrade their existing Home Gateways to Gigabit speed without paying for the expensive hardware upgrades. Leveraging Proscend xDSL SFP modules will be the most cost-efficient solution for ISPs to upgrade their network service.

Features

- Compliant with ITU G.fast standards G.9700 and G.9701
- Max 1Gbps speed over existing copper wire
- Low power dissipation design
- Wide operating temperature
- Compact design for smart CPE migration

MECHANICAL DIMENSIONS

(Units in mm)



Proscend 190-T



Key features

G.fast Features		OAM Features		Advanced ITU Features	
Frequency band	2.2MHz to 106MHz	SOC, EOC, RMC	Compliant	G.inp	Retransmission
Modulation	Discrete Multi Tone (DMT)	SRA	Seamless Rate Adaption	Vectoring	Linear vectoring (CPE)
Duplexing	TDD (Time Division Duplexing)	Bit Swapping	Compliant	NTR	NTR transport on G.fast
Sub carriers	2048 carriers with 12 bits/carrier	RPA	RMC Parameter Adjustment	ToD	Frequency synchronize and Time synchronize
Sub carrier spacing	51.75kHz	FRA	Fast Rate Adaptation	Other Features	
ANDR	1Gbps (Aggregate Net Data Rate)	TIGA	Transmitted Initiated Gain Adjustment	QoS	Flexible packet classify based on Ether Type, VLAN ID or VLAN
FEC	Trellis coding				Priority (supports QinQ)
	Reed-Solomon coding				
Maximum TX power	4dBm			EBM	Ethernet Boot & Management
Handshake	ITU-T G.994.1				

Specifications

Hardware		Compact & Robust RJ-45 connector
		SGMII/ SERDES connect to host
		Access to transceiver function via I2C (SFF-8472) or Ethernet bus for management & configuration
		LED1 : MT5321 G.fast SFP link status LED (YELLOW)
		LED2 : SGMII activity LED (GREEN)
Software		Support Ethernet Boot mode and Management (EBM)
Power Requirement		Linux SDP driver for managed device
Power Supply		2 W
		3.3 V
Environment	Operating Temperature	0°C ~ +75°C (SFP cage)
	Storage Temperature	-20 ~ +85°C
	Operating Humidity	10% to 90% (non-condensed)
	Storage Humidity	5% to 95% (non-condensed)
	Surge Protection	4KV
Certification		CE / FCC

Order information

Model No.	Description	Connector
190-T	G.fast SFP Modem	RJ-45

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