


FST16 500+ SERIES

FAST

# 16-Port Gfast DPU

Gigabit Speeds over old copper.



 **Broadband services based on the emerging Gfast standard will be used by nearly 30 million homes and businesses worldwide in 2021. " (Ovum)**

## Gigabit speeds over old copper.

Reach bonded Gfast speeds up to 1.7 Gbps over two copper pairs.  
Reach aggregate Gfast speeds up to 900 Mbps over one copper pair.  
Reach dynamic bandwidth speeds up to 800 Mbps over one copper pair.

## Retrofit versus rewire.

Rewire costs are traditionally +/- \$600 per subscriber for wiring only.  
Retrofit with Gfast costs with the FST16 series per subscriber are 3-6 times less.  
Provide 16 subscribers with Gfast per FST16 Series DPU.

## Reliable. Simple to deploy.

Deploy over Cat5/6, Cat3, Cat1, Flat wire or Coax.  
Highly tolerant to inside wiring impairments.  
ITU standards based. Carrier tested.

## Increase property value.

Gigabit Internet increases property values by 3% and rents by 8%. (RVA)  
Faster Internet attracts new customers and new tenants.

## Big opportunity.

17,373,576 targeted multi-dwelling Gfast buildings in the US.  
Gfast targeted buildings are Pre-2003. (Cat3, Cat1, Flat wire).  
Multi-dwelling in the US yearly is an 8+ billion USD market.

## Fast is your value partner.

We support and sell reliable, telco grade products.  
We are focused on keeping product pricing at value prices.

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## System Features

### ↻ Gfast Ports

1. 16-ports using an RJ-21 amphenol interface.
2. Total rate up to 900 Mbps aggregate.  
Total bonded rate up to 1800 Mbps aggregate.
3. Scipio cDTA Dynamic Bandwidth Support.
4. Tolerant of inside wire impairments and changing noise.
5. 16-port vectoring (crosstalk cancellation).
6. Full start up sequence of <20sec  
Fast retrain time of <2sec.
7. Complies with ITU-T G.9700/9701, 106a profile
8. Supports resynchronization.
9. Supports RFI configuration
10. Supports GFast profile setup
11. Programmable Time-Division Duplexing.
12. Supports fast on-line reconfiguration (SRA, FRA, TIGA, RPA and bit-swapping)

### ↻ Bridging Port

1. Untagged/Tagged/TLS port
2. VLAN Ingress Filter Check
3. Port-based VLAN
4. Protocol-based VLAN
5. Priority-based VLAN
6. S-tag/C-tag Priority Mapping
7. VLAN Translation

### ↻ VLAN

1. Single or Double tag support
2. N:1/1:1 / TLS VLAN

### ↻ Forwarding Data Base

1. 4K MAC address entries
2. Dynamic/Static FDB
3. MAC learning limitation per port

### ↻ Multicast

1. IGMP v1, v2, v3
2. IGMP proxy
3. Multicast VLAN mapping
4. Independent VLAN multicast (IVM).

### ↻ QoS:

- > Policer:
  - » Broadcast and Unknown unicast flooding rate limit
  - » VLAN+802.1p Priority rate limit
- > Scheduler:
  - » SP - Strict priority
  - » WFQ – Weighted Fair Queue
  - » WRR – Weighted Round Robin.
  - » Shaping: CIR, CIR/EIR

### ↻ Access Control List

- > According to packet field
  - » Source or destination MAC addresses
  - » Source or destination IP addresses
  - » VLAN ID
  - » Ethernet type
  - » Protocol number
  - » TCP/UDP port

## Protocol Support

- ↻ IGMPv1, v2, v3 snooping and proxy
- ↻ DHCP L2 Relay – TR101 Appendix B
- ↻ IEEE 802.1X
- ↻ STP(802.1D) / RSTP (802.1W)
- ↻ SNMP Client
- ↻ SysLog Client

## Uplink ports

- ↻ 1 x 1GE or 2.5GE GPON SFP interface.  
Software Selectable (1G or 2.5)
- ↻ 1 x 1GE SFP
- ↻ 2 x 1GE interfaces

## Management

- ↻ Local RS-232 CLI and Ethernet Web/SNMP/TELNET management
- ↻ Remote in-band Web/SNMP/TELNET management
- ↻ NETCONF/YANG G.997.2 Data Model (In process.)
- ↻ Firmware upgradeable
- ↻ Support SNMP v1, v2, v3
- ↻ Alarm Relay for 4 inputs

## Operating Requirements

- ↻ Operating Temperature: (0° to 65 °C) (
- ↻ Storage Temperature: (-40c° to 80 °C) (
- ↻ Operating Humidity: 5% to 95% RH non-condensing

## Dimension and Weight

- ↻ Dimensions: 2.6'h x 17.3"w x 9.1"d  
66mm x 440mm x 230mm
- ↻ Weight: 8.8 lbs (4.0 kg)

## Power Source

- ↻ AC power: 90VAC ~ 264 VAC, 50-60 Hz,
- ↻ DC power: -48v (-36~-72V range)
- ↻ Power Consumption: 75 Watts at full utilization (25°C) (77°F)

## Certifications

- ↻ FCC Part 15 Class A
- ↻ CE-EMC Class A
- ↻ UL and cUL
- ↻ EN60950-1
- ↻ ITU-T K.21 Surge and Lightning protection

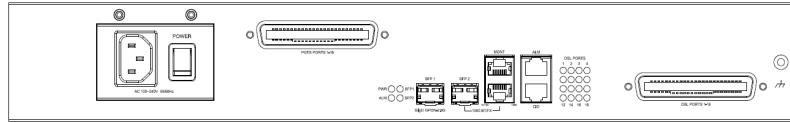



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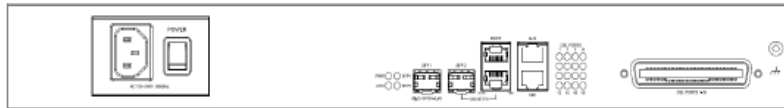
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## Model Number Description

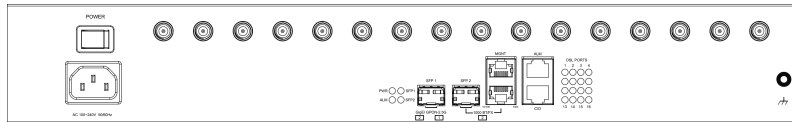
 **FST16.01** GFast 16 Port DPU. POTS splitter. AC Power. 1.5U Rackmount. (Special Order)



 **FST16.02** GFast 16 port. DPU. AC Power. 1U Rackmount.

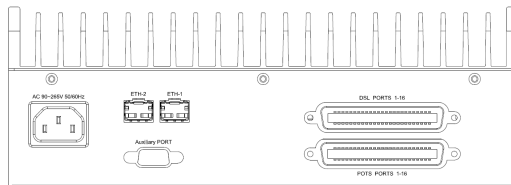


 **FST16.03** GFast 16 port Coax DPU. AC Power. 1.5U Rackmount. (Special Order)



 **FST16.04** GFast 16 port Sckipio DPU. AC Power. Indoor Wallmount. (Special Order)


 **FST16.05** GFast 16 port Sckipio DPU. AC Power. Outdoor Wallmount. (Special Order)



## Model Number Description

 **FSTSFP.01** GFast SFP, Sckipio 106.a spec with cDTA support. Up to 900Mbps. (Special Order)

 **FSTCPE.01** Gfast Bridge, Sckipio 106.a spec with cDTA Support. Up to 900Mbps. 1 Gigabit Ethernet Port. RJ11 and Coax.

 **FSTCPE.02** Gfast Bridge, Sckipio 106.a spec with cDTA Support. Up to 1.7Gbps. (Special Order) 1 Gigabit Ethernet Port. 2 x RJ11. Advanced Bonding Support.

## Contact Information

FAST

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