16-PORT GFAST 10G DISTRIBUTION POINT MODULE (DPM)
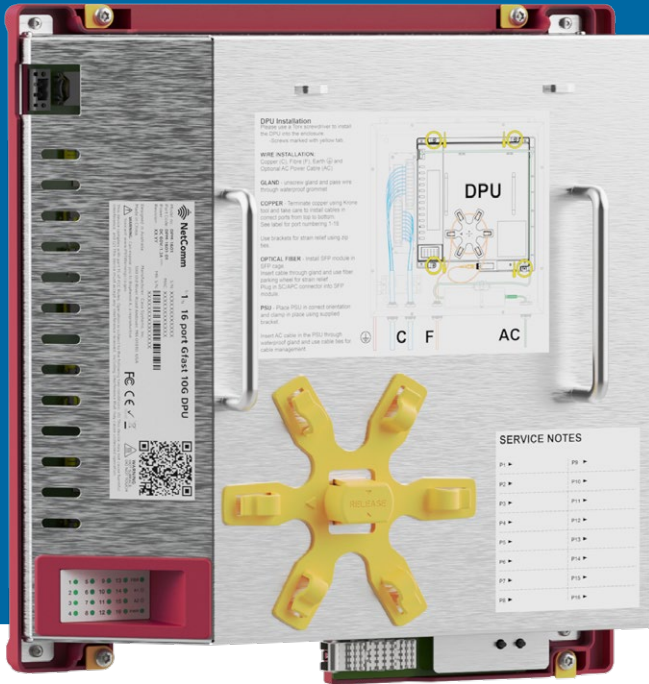
DPM-1601

Designed to assist operators in maximizing revenue from **Fiber-to-the-Home** (**FTTH**) deployments, particularly in scenarios where deploying the final fiber segment is difficult, expensive, or impractical. The NetComm **DPM-1601 16-Port Gfast 10G DPM** acts as a fiber extender for **GPON & XGS-PON** networks, delivering gigabit-class service over the existing copper lead-in cable.

HIGH SPEED BROADBAND

Gfast 212MHz provides aggregate speeds up to 2Gbps, enabling the delivery of fiber-equivalent gigabit services over legacy copper.

REVERSE POWER

The DPUs are reverse powered by the **Network Termination Device** (**NTD**) installed in the end-user premises, avoiding the cost and delay associated with providing a local AC power connection and eliminating potentially difficult negotiations with apartment owners over access to, and charges for, AC power.

ADVANCED REMOTE MANAGEMENT

The DPUs support Netconf/YANG, offering full remote device management and troubleshooting by using a Persistent Management Agent Aggregator (PMAA).

ANYWHERE INSTALLATION

Silent, energy-efficient passive cooling design withstands a wide temperature range from -20°C to +60°C. Fully sealed waterproof outdoor housing with surge protection provides enhanced reliability even in the toughest conditions.

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TECHNICAL
SPECIFICATIONS

CONNECTIVITY
› 1 x SFP+ uplink port (supports GPON and XGS-PON transceivers)
› 16 x Gfast (ITU G.993.2/G.9701) ports

SUPPORTED STANDARDS
› IEEE 802.1Q VLANs
› IEEE 802.1Q Class of Service ("802.1p")
› IEEE 802.1ad (Stacked VLANs)
› IEEE 802.1ag
› ITU Y.1731 (Fault Management and Performance Monitoring)
› ITU G.993.2
› ITU G.9807.1
› ITU G.988 OMCI
› ITU G.9700 & G.9701 (G.fast)
› Broadband Forum TR-156/TR-247/TR-255
› Broadband Forum TR-301/TR-355 (DPU Management)

POWER SUPPLY
› **Input**: 60V/70W (SR2)
› Powered by NDD-03XX Gfast NTD or NDD-01XX RPU
› **Output**: 60V/250mA max

SAFETY STANDARDS
› IEC/EN 62368-1, Part 1

EMC STANDARDS
› EN 55032
› EN 55035

REGULATORY COMPLIANCE
› CE
› FCC
› RoHS
› WEEE
› UL

DIMENSIONS & WEIGHT
› 341mm (L) x 334mm (W) x 141mm (D)
› 4kg

ENVIRONMENTAL PERFORMANCE
› **Operating temperature range**: -20°C to +60°C
› Passively cooled
› Maintenance free design

ENVIRONMENTAL STANDARDS
› IEC/UL 60950-22
› IEC 60529 (IP68)

INSTALLATION
› Deploy in the DSE-1608 DPU System Enclosure
› IP55 weatherproof solution for both indoor and outdoor locations
› Ports for 2mm to 14mm diameter cables
› K.45 surge protection (field replaceable)

DEPLOYMENT SCENARIOS

Indoors, outdoors.

KEY
FEATURES

› Gfast 212a profile
› Full support for ITU G.9701 G.fast specification including Amendments 1, 2 & 3
› 1 x SFP+ cage supports GPON or XGS-PON field installed transceiver
› 16 x Gfast (ITU G.993.2/G.9701) ports
› Passive cooling design with a wide temperature range of -20°C to +60°C

› Deployed in the DSE-1608 DPU System Enclosure which provides:
  › IP55 protection for indoor and outdoor locations
  › K.45 surge protection (field replaceable)
  › Wall mount bracket
  › Weather-proof cable ports for UTP cables and fiber cable
  › Quick and reliable installation

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