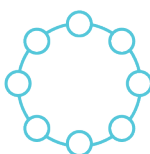# NETWORK TERMINATION DEVICE (NTD)

NDD-0305

The **NetComm FTTdp Network Termination Device (NTD) NDD-0305** is a unique all-in-one solution, designed to power a **Distribution Point Unit** (DPU) in FTTdp deployments and deliver an enhanced Internet experience thanks to an integrated Gfast modem supporting gigabit broadband services. Fault and performance monitoring ensure the quality of service, making it easier to identify and fix problems.

REVERSE POWERING THE DPU

The **NDD-0305** provides power to the **DPU** directly from the customer premises over the copper lead-in cable, simplifying and reducing the cost of FTTdp deployments since the DPU does not require connection to a local power source.

ALL-IN-ONE SOLUTION FOR A BETTER EXPERIENCE

The **NDD-0305** features the latest technology to achieve Gigabit service speeds with the integrated **Gfast** modem. The device minimises interoperability challenges and ensures the best user experience without interruptions.

SIMPLE INSTALLATION

Simply labeled ports and cables, together with an explanatory Quick Start Guide, make self-installation quick and easy for end users, eliminating the need for a technician to visit.

COMPATIBLE WITH EXISTING GATEWAY DEVICES

The **NDD-0305** provides an Ethernet connection allowing a subscriber to continue using a pre-existing gateway device, if present. It also enables operators to use their existing Ethernet-enabled gateway devices as deployed for other access technologies.

PLUG AND PLAY

Once the **NDD-0305** is connected and turned on, the high-speed service is automatically activated, providing a quick and cost-efficient roll-out.

NetComm

DSL PROTOCOLS
› ITU G.9700 and G.9701, including Amendments 1,2,3 - G.fast supporting profiles 106a/b and 212a

INTERFACES
› 1 x RJ45 Gigabit Ethernet port
› 1 x RJ11 DSL port
› 1 x Power input port (IEC C8)
› 1 x Recessed reset button

LED INDICATORS
› Power
› RPF link
› DSL
› LAN

SECURITY
› Meets general security requirements including:
  › Isolation of management plane from user data plane
  › Management traffic encryption
  › Supports digitally signed and verified firmware downloads

REMOTE MANAGEMENT
› Automatically managed by the DPU
› Optional BBF TR-069 CPE WAN Management Protocol - Issue 1, Amendment 5
› BBF TR-181 Device Data Model for TR-069 - Issue 2, Amendment 11
› Layer-2 fault and performance monitoring based on 802.1ag and Y.1731

ETHERNET SUPPORT
› QoS-aware queueing and scheduling

SAFETY STANDARDS
› IEC 62368-1
› UL 62368-1
› ITU-T.K21

EMC STANDARD
› FCC EMC Part 15, Class B
› ICES-003 Class B

REGULATORY COMPLIANCE
› FCC
› CA Prop 65

POWER SUPPLY
› **Input**: AC 85 – 120V 60Hz/475mA

REVERSE POWERING
› ETSI TS 101 548 v2.2.1, Class SR2
› **Output**: DC 60V/250mA

DIMENSIONS & WEIGHT
› 184 mm (L) x 184 mm (W) x 51 mm (H)
› 0.5kg

ENVIRONMENTAL
› **Operating temperature range**: 0°C to 45°C
› **Storage temperature range**: -20°C to +70°C
› **Relative humidity**: 5–95%, non-condensing

DEPLOYMENT SCENARIOS:
› FTTdp deployments requiring an alternative to, or backup for, local AC power supply for Distribution Point Units.
› FTTdp deployments with tight roll-out schedules and budgets, demanding an easy to install all-in-one solution that eliminates the need to visit customer premises and cuts installation costs.

KEY
FEATURES

› Installed in customer premises
› Powers the FTTdp DPU avoiding power supply installation and connection at the distribution point
› Gfast 212MHz support
› High-speed Gigabit Ethernet port for connection to a computer, wireless router or gateway device

› Provides super-fast speeds in a mixed access technology network
› Labelled ports and cables, and a Quick Start Guide enabling easy installation by the end user
› LED indicators provide Power, Reverse power feed, DSL link and LAN status information

› LED indicator cover can be used to hide distracting lights
› Management traffic encryption
› Supports digitally signed and verified firmware downloads

NetComm NDD-0305 NTD Spec Sheet Rev 7