



# FTTx Technologies

## Market Report

This report examines the different technologies, both current and future, employed in FTTH or FTTB rollouts, including PON and Ethernet networks, as well as the latest developments in copper technologies. The topic of outfitting homes with cable is also addressed. And, finally, the report provides exclusive insights from leading industry players into the reasons behind their technological choices.

### Key questions

- Is copper dead?
- FTTH Technologies: What future developments are on the horizon and how is PON facing off with Ethernet?
- What is the potential for DOCSIS 3.0 networks?
- What are the best solutions to distribute very high-speed access to all connected objects in the house?

> Views from top industry players



## 1. Ultra-broadband over the copper pair

### 1.1. DSL2

- Architecture
- Performance
- Standardisation, certification
- Operators', local authorities' and power companies' choices

### 1.2. Copper's potential: DSM

## 2. Passive optical networks (PON)

### 2.1. General points

- Description of the technology
- Required equipment
- Level of standardisation
- Interoperability

### 2.2. EPON

- Operators', local authorities' and power companies' choices
- "Ethernet in the First Mile" working group

### 2.3. GPON

- Operators', local authorities' and power companies' choices
- FSAN work on interoperability

### 2.4. The future of PON

- 10GPON and 10GEAPON
- option WDM

## 3. Ethernet P2P

- Description of the technology
- Operators', local authorities' and power companies' choices

## 4. DOCSIS 3.0

### 4.1. Description of the technology

### 4.2. Standardisation

### 4.3. Interoperability

### 4.4. Operators', local authorities' and power companies' choices

## 5. Introduction to MSAN (Multiple Service Access Network)

- Technology
- MSAN vendors market shares

## 6. Installations on customer premises

### 6.1. Fibre in the home

### 6.2. MOCA option in the United States

### 6.3. Cat5 and Cat5e cables in Asia

### 6.4. Potential of wireless and POF in the home

## Views from top industry players

### 7.1. Alcatel Lucent

### 7.2. Cisco

### 7.3. PacketFront

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