



# inoteska

## MUX E1 OVER ETHERNET PRODUCT DOCUMENTATION



# CONTENTS

<b>1. General description</b> .....	<b>2</b>
<b>2. Application</b> .....	<b>3</b>
<b>3. Signification of LED diodes</b> .....	<b>3</b>
<b>4. Interfaces description</b> .....	<b>4</b>
<b>5. Technical parameters</b> .....	<b>5</b>

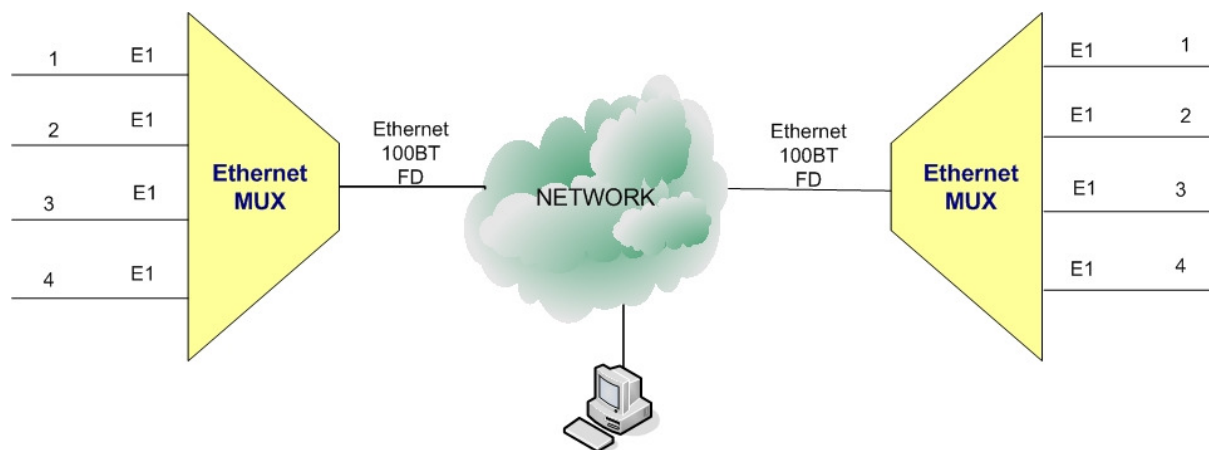
## 1. GENERAL DESCRIPTION

<b>Name:</b>	MUX E1 over Ethernet
<b>Type nomenclature:</b>	ITX 482 70 MUX 4xE1 over ETH ITX 482 71 MUX 8xE1 over ETH
<b>Producer:</b>	INOTESKA, s.r.o., Podtureň - Roveň 221, 033 01 Liptovský Hrádok
<b>Placement:</b>	in supervised areas
<b>Dimensions:</b>	43.5 x 237 x 220 mm (h x w x d)
<b>Environmental conditions:</b>	0° C to 55° C, 20% to 75% relative atmospheric humidity
<b>Storage :</b>	-10° C to 60° C, 20% to 75% relative atmospheric humidity

### **Basic parameters:**

- multiplexer PRI, Ethernet
- transmission of E1 interfaces via Ethernet
- 1x Ethernet 10/100 BT auto MDIX option
- up to **8 x E1** G703 (120 Ohm, RJ 45) unframed
- 1x RS232 (V24) RJ 45
  
- transmission in local network RAW ETH
- no transmission over IP network (it is possible to change)
- identification of devices according to their ID settings
- jitter buffer – optional setting to 2, 5, 10 ms.
- clock recovery /synchronization E1 over Ethernet network
- Configuration and remote control via TCP/ IP, UDP, HTTP
- one device is synchronized from E1 side and another from Ethernet
- for secure device operation – it is necessary to set QOS in the network, min. delay, min. error rate and min. packets jitter

## 2. APPLICATION



## 3. SIGNIFICATION OF LED DIODES

### Signification of LED diodes on the front panel:

- ERR A - H** - permanently ON – E1 interface not connected – loss of signal
- OFF – E1 interface connected – connection is OK.

### Signification of LED diodes on the back panel:

**PWR** Device power supply

## 4. INTERFACES DESCRIPTION

### 4.1 Interface E1 G.703

#### Description of RJ 45

1 – input wire to ITX 482 70/71	-----	RX -
2 – input wire to ITX 482 70/71	-----	RX+
3 –		
4 – output wire from ITX 482 70/71	-----	TX -
5 – output wire from ITX 482 70/71	-----	TX+
6 –		
7 –		
8 –		

### 4.2 Interface Ethernet 100BT Full Duplex

#### RJ45

1 – Transmitting to ITX 482 70/71	Tx +
2 – Transmitting to ITX 482 70/71	Tx -
3 – Receiving to ITX 482 70/71	Rx+
4 –	
5 –	
6 – Receiving to ITX 482 70/71	Rx-
7 –	
8 –	

### 4.3 Connector V.24 CONTROL

#### Cable for PC a MUX connection

##### RJ 45

1 –	
2 –	
3 –	
4 – Transmitting from ITX 482 70/71	Tx +
5 – Receiving to ITX 482 70/71	Rx+
6 – Receiving to ITX 482 70/71	Rx-
7 – Transmitting from ITX 482 70/71	Tx -
8 – GND	

## 5. TECHNICAL PARAMETERS

**Interface G.703:** unframed G.703

**Line code:** HDB 3

**Impedance:** 120 Ohm

**Interface 100 BT FD:** connector RJ 45

**Synchronisation:**

- from G.703
- internal timing
- Ethernet

**Power supply:** - adapter 230 V / 50Hz

**Device has to use a standardly supplied adapter.**

**Max. input:** 5 VA

**Dimensions:** 43.5 x 237 x 220 mm ( h x w x d )

**Weight:** 2 kg