

Awards winner:



MTK Trade Fair medal in 2011, 2013



„Napędy i Sterowanie” Journal Product of the Year 2012



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INTRINSICALLY SAFE FIBER OPTIC DATA TRANSMISSION SYSTEM

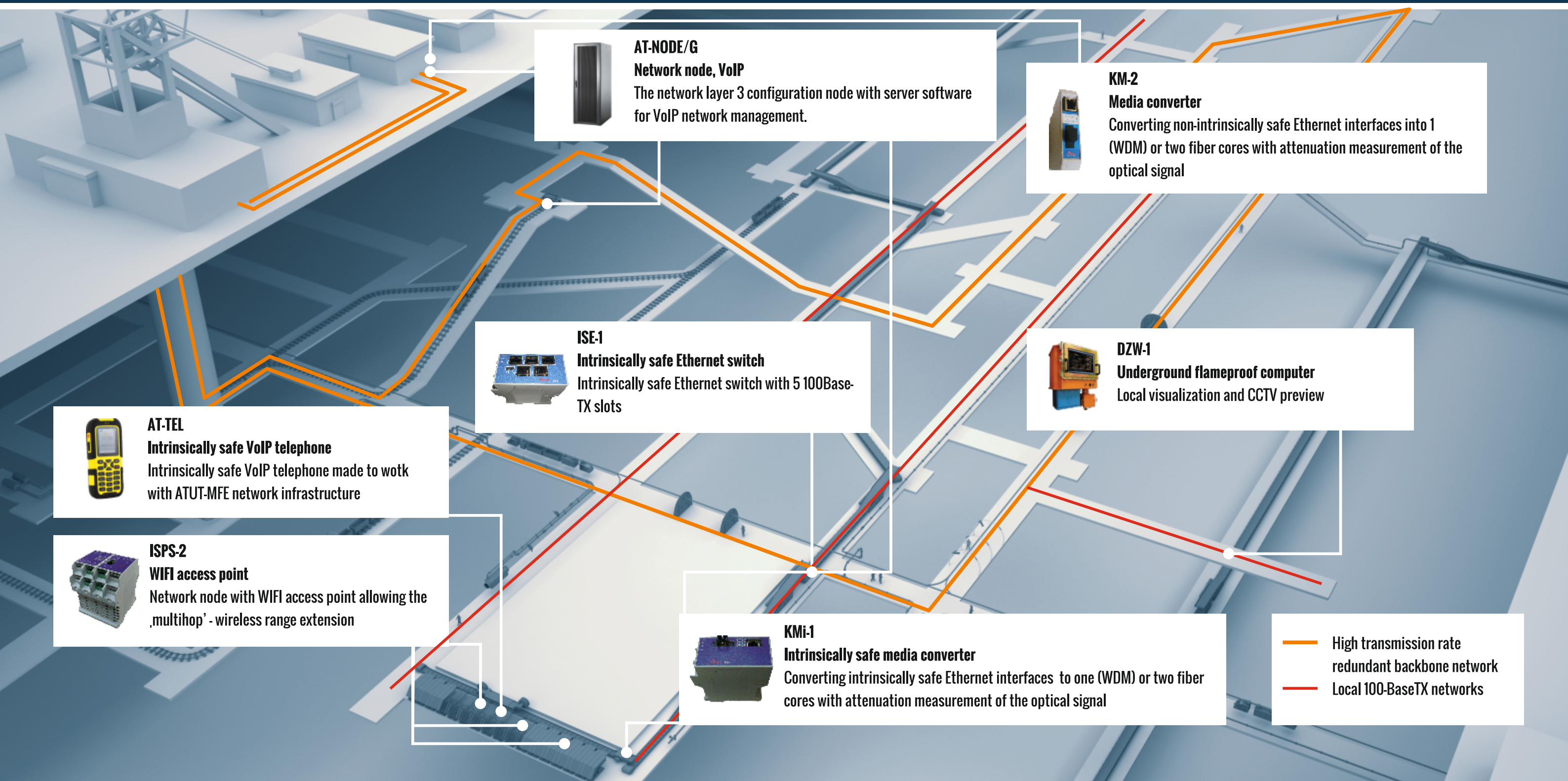
ATUT - MFE

Intrinsically safe, backbone fiber optic Ethernet data transmission system called ATUT-MFE is a modular, open system that allows building an underground fiber-optic network, based on a wide range of components. The use of WDM technology (Wavelength Division Multiplexing), can reduce by half the number of fibers used for data transmission. Due to the fact that the ATUT-MFE network is based on TCP/IP protocol it is possible to implement a full-duplex data transmission with usage of just one fiber.

ATUT-MFE network redundancy in emergency situations can provide its user with:

- Layer-3 network routing,

- relieving the most occupied network points,
- quick response to emergency situations - network reconfiguration,
- monitoring of the optical fiber by determination of the transmitter parameters, such as connection quality, medium attenuation (loss), network points traffic.
- The usage of data transmission monitoring in even smallest networks provides its users with fast and accurate localization of failure in network, giving also the ability to predict the damage by analyzing the quality of the connection and attenuation (loss) of individual cable sections of the network.



AT-NODE/G
Network node, VoIP
 The network layer 3 configuration node with server software for VoIP network management.



KM-2
Media converter
 Converting non-intrinsically safe Ethernet interfaces into 1 (WDM) or two fiber cores with attenuation measurement of the optical signal



ISE-1
Intrinsically safe Ethernet switch
 Intrinsically safe Ethernet switch with 5 100Base-TX slots



DZW-1
Underground flameproof computer
 Local visualization and CCTV preview



AT-TEL
Intrinsically safe VoIP telephone
 Intrinsically safe VoIP telephone made to work with ATUT-MFE network infrastructure



ISPS-2
WiFi access point
 Network node with WiFi access point allowing the 'multihop' - wireless range extension



KMi-1
Intrinsically safe media converter
 Converting intrinsically safe Ethernet interfaces to one (WDM) or two fiber cores with attenuation measurement of the optical signal

— High transmission rate redundant backbone network
 — Local 100-BaseTX networks