

# Seznam zkratek

AES	<i>Advanced Encryption Standard</i>
AIDA	<i>AutomatisierungsInitiative Deutscher Automobilhersteller</i>
APC	<i>Advanced Process Control</i>
BOZP	bezpečnost a ochrana zdraví při práci
BPDU	<i>Bridge Protocol Data Unit</i>
CAD	<i>Computer Aided Design</i>
CAE	<i>Computer Aided Engineering</i>
CAM	<i>Computer Aided Manufacturing</i>
CAN	<i>Controller Area Network</i>
CAPEX	<i>Capital Expenditure</i>
CBC	<i>Cipher Block Chaining</i>
CBM	<i>Condition Based Maintenance</i>
CNC	<i>Computer Numerical Control</i>
COTS	<i>Commercial Off The Shelf</i>
CPU	<i>Central Processor Unit</i>
CSTP	<i>Classical Spanning Tree Protocol</i>
DAN-P	<i>Dual Attached Node for PRP</i>
DC	<i>Direct Current</i>
DCavg	<i>Diagnostic Coverage – average</i>
DCS	<i>Distributed Control System</i>
DES	<i>Data Encryption Standard</i>
DIP	<i>Dual In-line Package</i>
DoS	<i>Denial of Service</i>
DSA	<i>Digital Signature Algorithm</i>
DSP	<i>Digital Signal Processor</i>
ECB	<i>Electronic Code Book</i>
ECC	<i>Elliptic Curve Cryptography</i>
ECDLP	<i>Elliptic Curve Discrete Logarithm Problem</i>
ECDSA	<i>Elliptic Curve Digital Signature Algorithm</i>
EMC	<i>Electromagnetic Compatibility</i>
EPSPG	<i>Ethernet Powerlink Standardization Group</i>
FBD	<i>Function Block Diagram</i>
FRNT	<i>Fast Recovery of Network Topology</i>
FSoE	<i>Functional Safety over EtherCAT</i>
GPS	<i>Global Positioning System</i>
GSM	<i>Groupe Spécial Mobile</i>
HAZOP	<i>Hazard and Operability Study</i>
HIPER	<i>Hirschmann Performance Redundancy</i>
HMI	<i>Human Machine Interface</i>
HSPA	<i>High Speed Packet Access</i>
I/O	<i>Input – Output</i>
ICMP	<i>Internet Control Message Protocol</i>
ICT	<i>Information and Communication Technology</i>
IEC	<i>International Electrotechnical Commission</i>
IEEE	<i>Institute Electrical and Electronics Engineers</i>
IP	<i>Ingress Protection</i>
IPsec	<i>Internet Protocol Security</i>
ISM	<i>Industrial, Scientific and Medical</i>
IT	<i>Information Technology</i>
LAN	<i>Local Area Network</i>
LCD	<i>Liquid-Crystal Display</i>
LD	<i>Ladder Diagram</i>

LED	<i>Light-Emitting Diode</i>
MAC	<i>Media Access Control</i>
MES	<i>Manufacturing Execution System</i>
MPC	<i>Model Predictive Control</i>
MRP	<i>Media Redundancy Protocol</i>
MTTFd	<i>Mean Time To Failure – dangerous</i>
NAT	<i>Network Address Translation</i>
OLE	<i>Object Linking and Embedding</i>
OPC-UA	<i>OLE for Process Control-Unified Architecture</i>
OSHA	<i>Occupational Safety and Health Administration</i>
PC	<i>Personal Computer</i>
PFD	<i>Probability of Failure on Demand</i>
PFH <sub>d</sub>	<i>Probability of Dangerous Failure per Hour</i>
PIMS	<i>Process Information Management System/Historian</i>
PL	<i>Performance Level</i>
PLC	<i>Programmable Logic Controller</i>
PRP	<i>Parallel Redundancy Protocol</i>
PWM	<i>Pulse Width Modulation</i>
QoS	<i>Quality of Service</i>
RAM	<i>Random Access Memory</i>
RFID	<i>Radiofrequency Identification</i>
RISC	<i>Reduced Instruction Set Computer</i>
RSA	<i>Rivest Shamir Adleman</i>
RSTP	<i>Rapid Spanning Tree Protocol</i>
RTT	<i>Round-Trip Time</i>
SAE	<i>Society of Automotive Engineers</i>
SBC	<i>Safe Brake Control</i>
SCADA	<i>Supervisory Control and Data Acquisition</i>
SHB	<i>Safety Heartbeat</i>
SHDSL	<i>Single pair High speed Digital Subscriber Line</i>
SIL	<i>Safety Integrity Level</i>
SIM	<i>Subscriber Identity Module</i>
SLS	<i>Safety Limited Speed</i>
SS1	<i>Safe Stop 1</i>
SSL	<i>Secure Socket Layer</i>
SSM	<i>Safe Speed Monitor</i>
ST	<i>Structured Text</i>
STO	<i>Safe Torque Off</i>
STP	<i>Spanning Tree Protocol</i>
TCN	<i>Topology Change Notification</i>
TCP/IP	<i>Transmission Control Protocol/Internet Protocol</i>
TC-PAM	<i>Trellis Coded – Pulse Amplitude Modulation</i>
TLS	<i>Transport Layer Secure</i>
TMR	<i>Tripple Modular Redundancy</i>
TÜV	<i>Technischer Überwachungs-Verein</i>
UCA	<i>Utilities Communication Architecture</i>
UICC	<i>Universal Integrated Circuit Card</i>
UMTS	<i>Universal Mobile Telecommunication System</i>
U-NII	<i>Unlicensed – National Information Infrastructure</i>
USB	<i>Universal Serial Bus</i>
VPN	<i>Virtual Private Network</i>
WLAN	<i>Wireless Local Area Network</i>