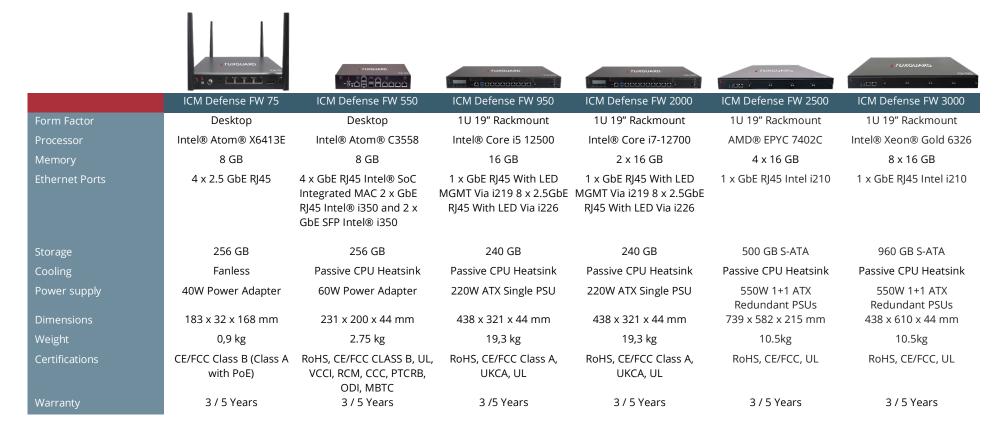




### MADE IN GERMANY FOR A SECURE DIGITAL FUTURE





### **BRILLIANT CYBERSECURITY TECHNOLOGY**

The ICM Defense Firewalls give you the highest possible transparency, protection and performance to master the security of your network with ease.

Phishing, Malware, Ransomware and other unwanted traffic and attackers are analyzed, cleaned and blocked. The dramatic increase in bandwidth usage, encrypted data traffic, video deployment and transmission speeds required an effective, cost-effective Securing your networks.

For these requirements, this ICM Defense Firewall is your ultimate solution - all Made in Germany!

	ICM Defense FW 75	ICM Defense FW 550	ICM Defense FW 950	ICM Defense FW 2000	ICM Defense FW 2500	ICM Defense FW 3000
Network						
IPv4 und IPv6	✓	✓	✓	✓	√	✓
Link Aggregation (LACP)	✓	✓	✓	✓	✓	✓
Multi-WAN incl. Loadbalancing and	✓	✓	✓	✓	✓	✓
Failover VLAN und VXLAN	✓	✓	✓	✓	✓	✓
NTP	✓	✓	✓	✓	✓	✓
Access Control	✓	✓	✓	✓	✓	✓
DHCP/DNS						
DHCPv4 und DHCPv6 mit Relay und BOOTP	✓	✓	✓	✓	✓	✓
Support Dynamic DNS	✓	✓	✓	✓	✓	✓
Caching DNS incl. Host/Domain	✓	✓	✓	✓	✓	✓
Overwrites DNS Blacklists	✓	✓	✓	✓	✓	✓
Access Control	✓	✓	✓	✓	✓	✓

Firewall						
Statefull Inspection						
Firewall (SIF)	✓	✓	✓	✓	✓	✓
Operation System Fingerprinting (OSFP)	✓	✓	✓	✓	✓	✓
Network Address Translating (NAT)	✓	✓	✓	✓	✓	✓
Rulebased Limitation of	✓	✓	✓	✓	✓	✓
Equal Connections Packet Normalisation	✓	✓	✓	✓	✓	✓
Opt. Activation of Protocol per Rule	✓	✓	✓	✓	✓	✓
Policy Based Routing	✓	✓	✓	✓	✓	✓
Grouping via Aliase	✓	✓	✓	✓	✓	✓
Categorisaton of Rules Lines	✓	✓	✓	✓	✓	✓
DROP and EDROP	✓	✓	✓	✓	✓	✓
GeolP	✓	✓	✓	✓	✓	✓
Controle of Connection Status	✓	✓	✓	✓	✓	✓
Pure Router Usage without Firewall	✓	✓	✓	✓	✓	✓
Additional Diagnostic Tools	✓	✓	✓	✓	✓	✓
ICM Defense						
ICM Defense Basic, Basic Alias / VOIP	✓	✓	✓	✓	✓	✓
ICM Defense Advanced,						
Abuse / Attack / Compromised /	<b>√</b>	./	./	./	./	./
Malicious / Malware / Phising / Proxies	٧	v	v	v	v	v



# BRILLIANT CYBERSECURITY TECHNOLOGY

### DATA MATRIX

VPN						
IPsec mit IKEv1, IKEv2,	✓	J	√	J	J	J
NAT-T, DPD	•	•	*	•	•	•
OpenVPN	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
WireGuard	✓	✓	✓	✓	✓	✓
Stunnel	✓	✓	✓	✓	✓	✓
Traffic Shaper / QOS						
Rule based Matching	✓	✓	✓	✓	✓	✓
Bandwidth	✓	✓	✓	✓	✓	✓
Management Bandwith Sharing	✓	✓	✓	✓	✓	✓
Priorisation Regardless Firewall Rules	✓	✓	✓	✓	✓	✓
Intrusion Detection Systems and Prevention Systems (IDS/IPS)						
Deep Packet Inspection	✓	✓	✓	✓	✓	✓
SSL Fingerprinting	✓	✓	✓	✓	✓	✓
Captive Portal (Guest						
Network, BYOD)						
Several Zones	✓	✓	✓	✓	✓	✓
Templates for own Corporate Identity	✓	✓	✓	✓	✓	✓
Authentification via LDAP, Radius, Local	✓	✓	✓	✓	✓	✓
User Manager Vouchers and Tickets	✓	✓	✓	✓	✓	✓
Splash Screen Only	✓	✓	✓	✓	✓	✓
Timeout/Welcome Back	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	✓
Bandwidth Management	✓	✓	✓	✓	✓	✓
Portal Bypass	✓	✓	✓	✓	✓	✓
Realtime Reporting	✓	✓	✓	✓	✓	✓



# BRILLIANT CYBERSECURITY TECHNOLOGY

DATA MATRIX

High Availability						
Automatic Hardware Failover	✓	✓	<b>√</b>	✓	✓	<b>√</b>
Synchronisation Configuration	<b>✓</b>	✓	✓	✓	✓	✓
Synchronised	<b>✓</b>	✓	✓	✓	✓	✓
Connection Status High Availability, Single	✓	✓	✓	✓	✓	✓
Instance CARP Monitoring						
SNMP	✓	✓	✓	<b>√</b>	✓	<b>√</b>
Netflow Exporter	✓	✓	✓	✓	✓	✓
Netflow Analyser	✓	✓	✓	✓	✓	✓
Netflow CVS Export	✓	✓	✓	✓	✓	✓
Two-factor Authentication (2FA)						
Time-based One-time Password (TOTP)	<b>~</b>	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>
Google Authenticator	✓	✓	✓	✓	✓	✓
For Captive Portal, Proxy, VPN and WebGUI	<b>✓</b>	✓	✓	✓	✓	✓
Virus Scanner						
Internet Content Adaption Protocol (ICAP)	<b>√</b>	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>
ClamAV	✓	✓	✓	✓	✓	✓
For Email	✓	✓	✓	✓	✓	✓
For Webproxy	✓	✓	✓	✓	✓	✓
Webproxy						
HTTP, HTTPS, FTP und WebDAV	✓	<b>√</b>	<b>√</b>	✓	✓	<b>√</b>
SSH, SCP und SFTP	✓	✓	✓	✓	✓	✓
Caching Proxy	✓	✓	✓	✓	✓	✓

TUXGUARD		BRILLIANT (	DATA MATRIX			
Multi-Interface	✓	✓	✓	✓	✓	✓
Transparent Modus	✓	✓	✓	✓	✓	✓
TLS/SSL Inspection	✓	✓	✓	✓	✓	✓
Automatic Configuration via WPAD/PAC	<b>~</b>	<b>~</b>	✓	<b>✓</b>	✓	✓
Access Control Lists (ACLs)	✓	✓	✓	✓	✓	✓
Blacklists	✓	✓	✓	✓	✓	✓
Webfilter, Categorised	✓	✓	✓	✓	✓	✓
Traffic Management	✓	✓	✓	✓	✓	✓
Single-Sign-On (SSO) for LDAP, MS AD, Radius, others Virenscan via ICAP	<b>✓</b>	<b>✓</b>	✓ ✓	<b>✓</b>	✓ ✓	✓ ✓
Reverse Proxy						
HTTP, HTTPS and FTP	✓	✓	✓	✓	✓	✓
SMTP, POP3 and IMAP	✓	✓	✓	✓	✓	✓
TCP and UDP Data	✓	✓	✓	✓	✓	✓
Streams Load Balancer and Failover	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓
WAF	✓	✓	✓	✓	✓	✓
SNI Based Routing	✓	✓	✓	✓	✓	✓
Certificate Management						
Integrated Managened of Certificates Self-Signed	<b>√</b> ✓	<b>√</b> ✓	<b>√</b>	<b>*</b>	✓ ✓	<b>√</b>
Let's Encrypt	<b>✓</b>	✓	✓	✓	✓	✓

Additional Services						
Internet Group  Management Protocol	<b>√</b>	✓	✓	✓	✓	✓
(IGMP) Radius	✓	✓	✓	✓	✓	✓
Link Layer Discovery Protocol (LLDP) VOIP SIP Proxy	<b>√</b>	✓ ✓	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Firmware / Updates						
REST API	✓	✓	✓	✓	✓	✓
Easy Upgrade	✓	✓	✓	✓	✓	✓
Complete Documentation	<b>✓</b>	✓	✓	✓	✓	✓

		Optional	Additional	Module	<b>(</b>	
Email / Mail Proxy						
Multidomain SMTP- Relay	✓	✓	✓	✓	✓	✓
Rewriting of Adresses	✓	✓	✓	✓	✓	✓
Header Checks	✓	✓	✓	✓	✓	✓
ICM Fetch Mail Plugin inclusive Multidrop	<b>√</b>	✓	✓	✓	✓	✓
Email Spam and Maleware Filter						
Blocked Data Endings	✓	✓	✓	✓	✓	✓
Graylisting	✓	✓	✓	✓	✓	✓
SPF	✓	✓	✓	✓	✓	✓
DKIM	✓	✓	✓	✓	✓	✓
MX-Check	✓	✓	✓	✓	✓	✓
Phishing	✓	✓	✓	✓	✓	✓
Rate-Limits	✓	✓	✓	✓	✓	✓

LTUXGU	ARD	BRILLIANT (	DATA MATRIX			
Spam-Trap	✓	✓	✓	✓	✓	✓
RBL	✓	✓	$\checkmark$	✓	✓	✓
SURBL	✓	✓	✓	✓	✓	✓
Virusscan	✓	✓	✓	✓	✓	✓
üICM RSPAMD Additional Modules ICM RSPAMD Module, Improofed by Experience from SPAM	<i>,</i>	•	<b>√</b>	<i>,</i>	<i></i>	<i>J</i>
E-Mails Integragtion of Purchased Lists (HAM + SPAM)	·	·	·	·	·	,
Ubiquiti Unifi Controller						
Ubiquiti Unifi Controller		<b>√</b>	✓	✓	✓	✓
Host Routes						
Host Routes		✓	✓	✓	✓	✓

# Do you have any questions? Please contact us!

TUXGUARD GmbH
Wilhelmstraße 9, D-24534 Neumünster
sales@tuxguard.com
+49 4321 / 87 26 7-0

Visit us on www.tuxguard.com!

#### **About TUXGUARD**

TUXGUARD GmbH has stood for IT security "Made in Germany" for over two decades. A team of innovative developers develops customised cybersecurity infrastructures that are, of course, GDPR-compliant and free of backdoors. Threats are recognised at an early stage and eliminated immediately. TUXGUARD's perfectly harmonised portfolio, based on the revolutionary Intelligence Cyber Management (ICM) technology, connects people and technology and offers reliable protection of sensitive data against any threats from the network.