TOSHIBA
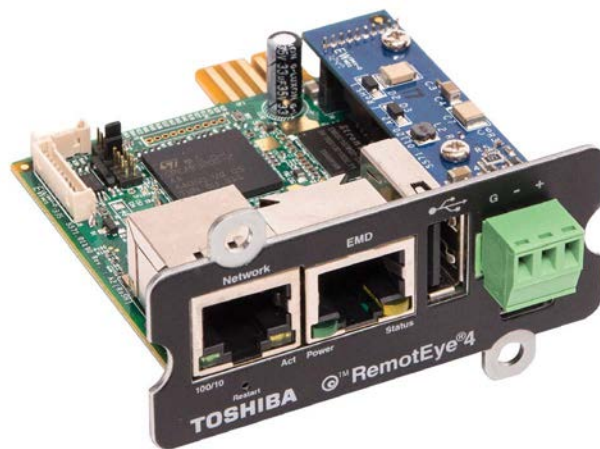
TOSHIBA INTERNATIONAL CORPORATION

POWER ELECTRONICS

MONITORING SOLUTIONS

MONITORING
SOLUTIONS

REMOTEYE® MULTI-PROTOCOL UPS MANAGER

RemotEye® is a complete management solution for Toshiba uninterruptible power systems (UPS). Designed to control and monitor Toshiba UPSs via a network, RemotEye utilizes Simple Network Management Protocol (SNMP), Hypertext Transfer Protocol (HTTPS/web browser), and Modbus® TCP/RTU, and BACnet IP/MSTP communications protocols. In addition, when a power outage occurs, email notifications can be sent to the network administrator or maintenance personnel. Should a prolonged power outage occur, RemotEye can initiate an orderly shutdown command to connected servers to minimize any risk of data loss. The latest product version, RemotEye® 4, includes upgrades such as a customizable dashboard, UPS Home Group, user defined reminders, mobile-friendly web site, and built-in firewall.

	RemotEye® II / Internal or External Hardware	RemotEye® III / Internal Hardware	RemotEye® 4 Internal Hardware
Model Numbers	Internal Part #: RMTI-INT-R4 External Part #: RMTI-EXT-R4	RMTI-3	RMTI-4
Package Content	UPS power provided, 6ft configuration cable, user manual, MIB files, program files, 120VAC adapter for External model.	UPS power provided, 6ft configuration cable, user manual, MIB files, program files	USB Cable (USB A to USB Mini-B), Start-up CD (with Quick Install Guide), Phoenix 3-pin Connector
Network Port	Auto Sensing 10/100 Mbps Fast Ethernet RJ-45 LAN Connector		
Serial Port	One asynchronous serial port for EMD/Console	One asynchronous serial port for EMD/Console	Three asynchronous serial ports for EMD, Console, & RS-485
Network Protocol	SNMPv1 and SNMPv3 over UDP/IP : HTTP over TCP/IP : ARP, RARP, TFTP, ICMP, Telnet, DHCP, DNS, BOOTP, & SMTP	SNMPv1 and SNMPv3 over UDP/IP : HTTP over TCP/IP : ARP, RARP, TFTP, ICMP, Telnet, DHCP, DNS, BOOTP, SMTP, & Modbus TCP	SNMPv1, SNMPv2c, SNMPv3, HTTP, Modbus TCP/RTU, BACNET IP/MSTP, Telnet, ARP, RARP, DHCP, DNS, BOOTP, SMTP, TFTP, PPP, & ICMP
Network Security	SSLv3, SSHv1, HTTPS, RADIUS, SSHv2*, & Built-In firewall* - (*RemotEye 4 only)		
Supported MIB	Toshiba Enterprise v1.3, JEMA, RFC1628	Toshiba Enterprise RMTI-3 1600XP MIB, Toshiba Enterprise RMTI-3 4300 MIB, JEMA & RFC 1628	TIC-RMTI4-T1000-MIB, TIC-RMTI4-1600XP(i)-MIB, TIC-RMTI4-4300-MIB, TIC-RMTI4-4400-MIB, TIC-RMTI4-G9000-G2020-MIB, TIC-RMTI4-SYS-MIB & RFC1628, TIC-RMTI4-5000-3P1-MIB, TIC-RMTI4-5000N3R-MIB TIC-RMTI4-G9000-G2020-V2-MIB TIC-RMTI4-T1000-1-3KVA-MIB
Operating Temperature	0 - 40°C		-20 – 60 °C
Operating Humidity	10 - 80%		
Power Input	8 - 12 VDC Unregulated	8 - 15 VDC Unregulated	7.5 - 16 VDC Unregulated
Power Consumption	Internal: 1.5 Watts maximum External: 2.0 Watts maximum	3.0 Watts Maximum	6.0 Watts Maximum
Size (LxWxH)	Internal Card: 130 mm (5.12") x 60 mm (2.36") External Card: 134 mm (5.28") x 86 mm (3.40") x 27 mm (1.10")	65.8mm (2.59") x 60.0mm x (2.36") x 19.9mm (0.78")	65.8mm (2.59") x 60.0mm x (2.36") x 19.9mm (0.78")
Weight	Internal: 80 gm (0.2 lbs) External: 170 gm (0.38 lbs)	80 gm (0.2 lbs)	80 gm (0.2 lbs)
Regulatory	RoHS FCC Class A, CE Class A, *UL, *CU (*External Power Adapter)	RoHS, CE, FCC Class B	RoHS, CE, FCC Class B
UPS Capability	Internal: 1000, 1600EP, 1700, 1800 External: 1000, 1400, 1500, 1600EP, 1700, 1800, 4200FA, G8000, G8000MM & G9000	1600XP, 4200FA (touch screen model) & 4300 Series	T1000, 1600XP, 1600XPi, 4300, 4400, G9000, G2020, 5000 3P1 & N3R

ENVIRONMENTAL MONITORING DEVICE (EMD)

The environmental monitoring device (EMD) is an auxiliary device for the RemotEye Series and Remote-D. This enables the RemotEye and Remote-D to provide real-time comprehensive remote monitoring of environmental temperature, humidity, and other environmental conditions through its two user-defined dry contact inputs. These conditions can be monitored via the RemotEye and Remote-D web interface (HTTP), SNMP, Modbus® TCP/RTU, and BACnet IP/MSTP capabilities. In addition, the EMD can be used with the RemotEye sensor pack which allows for monitoring of other conditions such as intrusions, vibrations, smoke, and water leak detections.
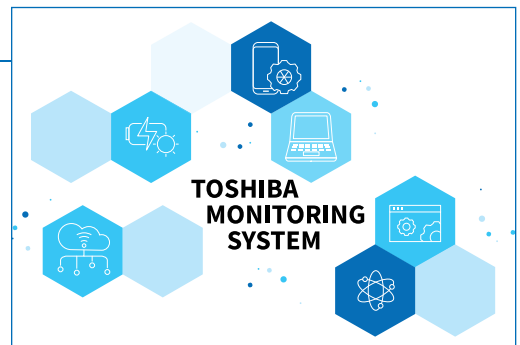
REMOTRADAR® VERSION 4

RemotRadar® Version 4 is a centralized private cloud server application that collects device data, and monitors the status of up to 1,000 UPS assets in LAN or WAN environment. This application deploys a centralized web server, allowing users to monitor and manage UPS assets anytime and anywhere via a web browser.

- Real-time monitoring & managing of up to 1,000 Toshiba & *Non-Toshiba UPS devices at once
- Web interface allows monitoring and management across global locations
- Creates multiple user profiles to access the app
- Delegates devices to users
- Customize alarms to meet location requirements

- Auto-tracks & reports UPS status and events Automatic event triggered email notifications
- Creates custom reports with built-in report generator
- Easy to view status icons for high-level monitoring
- No license key required for up to 10 devices

TOSHIBA MONITORING SYSTEM

- Uses RemotEye 4 & RemotRadar Cloud Platform (RCP) to add a powerful IoT layer to your monitoring solution
- Communicates via MQTT, a lightweight and secure data transfer protocol

- Allows real-time tracking of UPS health by Toshiba Experts
- Instant Fault Detection
- UPS Data Analytics

TOSHIBA MONITORING SYSTEM
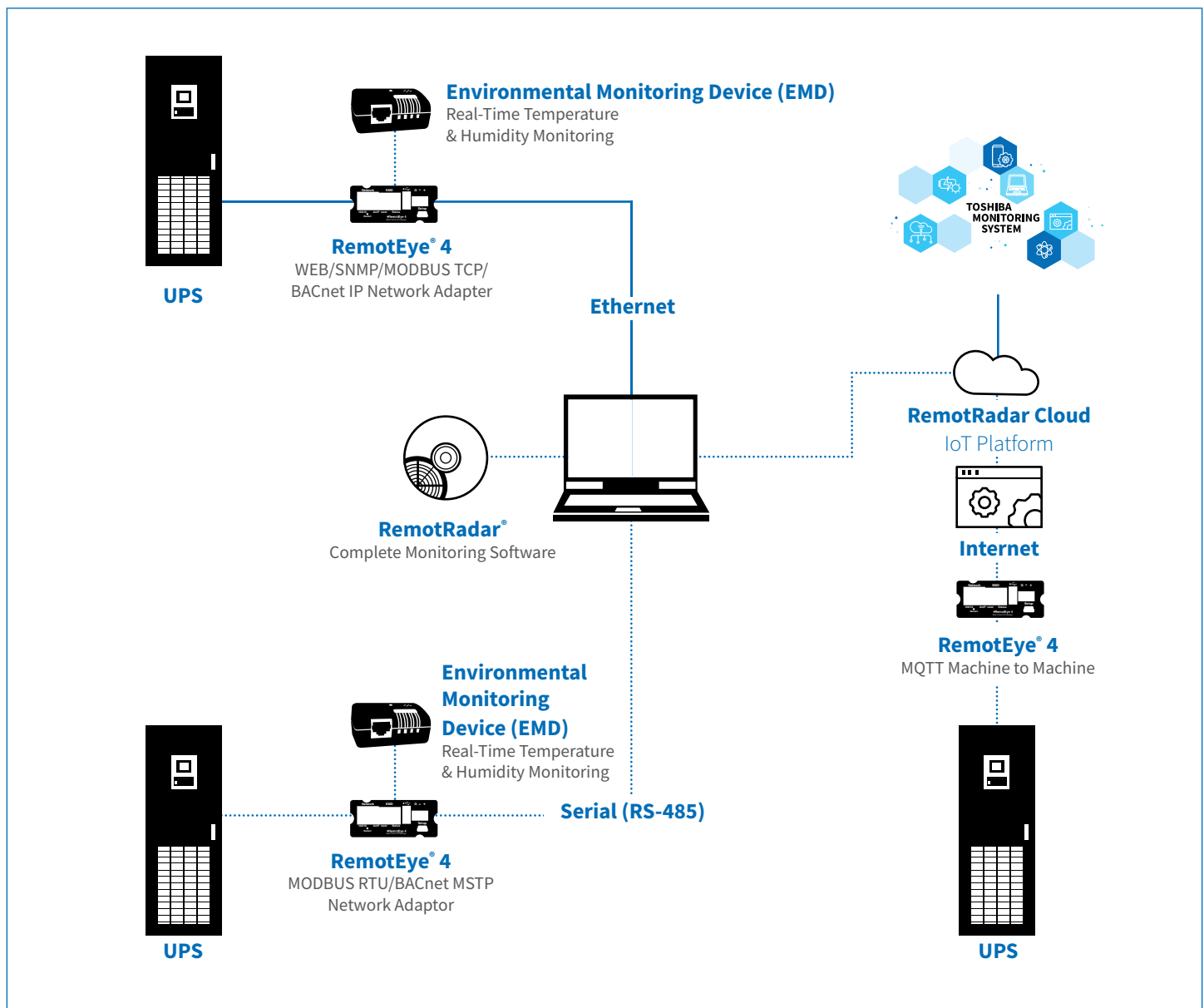
INDUSTRIES SERVED

- Data Center
- Industrial
- Commercial
- Emergency/Healthcare

APPLICATIONS

- Computer Systems
- Server Rooms
- Voice/Data Network Closets
- Edge Data Centers
- Point-of-Sale Equipment
- Banking Systems
- Retail Back Office Systems
- School System Computer Rooms
- Medical Labs
- Light Industrial

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NETWORK OVERVIEW

Environmental Monitoring Device (EMD)
Real-Time Temperature & Humidity Monitoring

UPS

RemotEye® 4
WEB/SNMP/MODBUS TCP/ BACnet IP Network Adapter

Ethernet

RemotRadar®
Complete Monitoring Software

TOSHIBA MONITORING SYSTEM

RemotRadar Cloud
IoT Platform

Internet

RemotEye® 4
MQTT Machine to Machine

Environmental Monitoring Device (EMD)
Real-Time Temperature & Humidity Monitoring

Serial (RS-485)

RemotEye® 4
MODBUS RTU/BACnet MSTP Network Adaptor

UPS

UPS

TOSHIBA POWER ELECTRONICS
Uninterruptible Power Systems • SCiB™ Lithium Ion Batteries • Energy Management Systems
Remote Monitoring • High Power Chargers • Containerized Solutions
PDU • RPP • Server Rack Enclosures

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