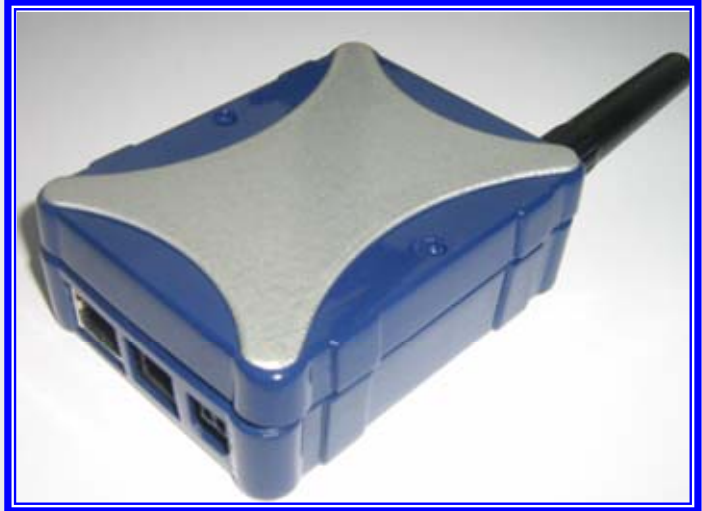


Keys features

- Router UMTS-HSDPA/HSUPA
- Compact case
- Modular architecture splitted in 3 sections:
 - **CPU** (logic unit and memories)
 - **Carrier** (interfaces and connectors)
 - **Wireless Adapter** (for radio modules)
- Exclusive Design
- Customizable brand
- **CPU Section :**
 - uController 32bit ARM926EJ-S @200Mips
 - 64MB SDRAM (system RAM)
 - 250MB NandFlash (system Flash)
 - 1GB..8GB I-Nand (SSD optional)
 - Linux 2.6.26 with BSP
 - Toolchain Eutron
- **Carrier section :**
 - Ethernet 10/100Mbps
 - I/F USB-Host v1.1
 - RS-232 port
 - Codec Audio (CPU ↔ UMTS module)
 - RTC (Real Time Clock)
 - I/F LCD (optional)
- **Wireless Adapter Section:**
 - Socket mini-PCI Express with USB I/F
 - Compatible with UMTS Qisda Modules :
 - H10 (UMTS HSDPA)
 - H20 (UMTS HSDPA+HSUPA)
 - H30 (HSPA+)



STR963

Router UMTS HSDPA/HSUPA for industrial wireless M2M applications.

STR963 is a wide band UMTS/ HSDPA-HSUPA wireless router.

In the geographical area not covered by HSPA, the STR963 can operate with the networks UMTS, EDGE and GSM/GPRS in quad-band mode.

The principal functions of the devices are:

- Routing Ethernet 10/100 vs UMTS HSPA
- Routing V.24 RS-232 vs UMTS HSPA
- Telecontrol of local units via RS-232 / USB.

The management of the STR963 can be realized via the integrate Web-Server or with the standard TCP/IP services: Telnet / FTP / SNMP, etc.. It also available an SMS command interpreters for the remote control of functions like: attach/detach from PLMN network, report of the status with: IP address, RSSI, Service-Provider and the available network (GPRS o UMTS).

The integrated audio codec permit, via GSM or UMTS, to send sintethised vocal messages verso to some remote users.



STR963 Technical features

Parameter	Description				
Physical characteristics	Dimensions		86 x 66 x 31mm		
	Weight		90gr		
	Power Supply		Range +7Vdc to +18Vdc		
	Temperature		Operating → -20°C to +65°C		Storage → -40°C a +85°C
Hardware Characteristics	CPU	Processor	ARM926EJ-S 220MIPS @200MHz		
		Memory	SDRAM	64MB	
			NandFlash	250MB .. 8GB	
			I-Nand	1GB .. 8GB	
			Video	4MB	
			DataFlash	64K	
		Buffered Bus expansion	Data → 16bits	Address → 26bits	CS → 4
	Carrier	Standard Peripherals	RTC → DS3231S		
			Serial Port RS-232		
			Ethernet 10/100		
			USB-Host v.1.1		
		Optional Peripherals	LCD controller (16M Color TFT mode – Upto 2048x2048) with 2D graphics accelerator		
			Touch-screen controller (4 wires)		
	Wireless Comms Module	GSM/GPRS	BenQ-Qisda M26 → quad-band		
		UMTS	BenQ-Qisda H10/H20/H30 → HSDPA/HSUPA/HSPA+		

STR963 UMTS Profiles

Item	Description	Qisda Engine UMTS					
		H10		H20		H30	
		Down-link	Up-link	Down-link	Up-link	Down-link	Up-link
STR963-10/xxx	Router UMTS HSDPA	7,2Mbps	384Kbps				
STR963-20/xxx	Router UMTS HSDPA+HSUPA			7,2Mbps	5,6Mbps		
STR963-30/xxx	Router UMTS HSPA+					28.8Mbps	11,4Mbps



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