

WorldGSM™ MSC 1040i

THE COMPACT MSC FOR RURAL DEPLOYMENTS

WorldGSM™ is the first mobile network designed from the ground up, to serve rural populations in developing markets – and do it profitably. We call the approach “Microtelecom” and it is going to help billions of people make their first phone calls.

The WorldGSM™ MSC is an engineering breakthrough: a complete standalone Mobile Switching Center in a compact box – easy to install at the periphery of any GSM network. A single MSC supports up to 5 WorldGSM™ 500i BSC nodes, serving over 10,000 subscribers and 40,000 BHCA.

The WorldGSM™ MSC features complete remote management. All operations & maintenance, including software updates, are performed through the WorldGSM™ remote OMC.

WorldGSM™ MSC brings all the benefits of being rural optimized by high-end performance, high-reliability, and compactness, with simplified installation and security control policies to your network.

BENEFITS

- **Extends Existing GSM Networks to Rural Areas**
Low power, compact equipment optimized to overcome all challenges operators face in deploying rural networks
- **Near Zero OPEX and Dramatically Lower CAPEX**
Makes telecom services profitable even at very low ARPU levels
- **The World's First Truly Sustainable GSM Network**
Significantly decreases operating costs by replacing grid power and diesel generators with solar energy
- **Provides Macro Coverage**
- **Flexible Deployment Configurations**
Coverage on demand



HIGHLIGHTS

- *Compact and easy to install*
- *Remote management – maintenance and updates through WorldGSM™ OMC*
- *3GPP R5 compliant for GSM Only*
- *Carrier-grade availability*
- *Pre-paid support*
- *Deployed together with WorldGSM™ BSC*
- *BSC Capacity: 5 x 500i BSC Nodes*
- *Subscriber Capacity: 10,000 Subs*
- *Peak Traffic Handling Capacity: 40,000 BHCA*
- *Switching Capacity (non-blocking): Up to 250 Erlangs*

WorldGSM™ MSC 1040i

SPECIFICATIONS

SYSTEM	
Type	Indoor
Power Supplies	Dual, Redundant, Hot-Swappable
Processor Redundancy	Dual Processor Cards
Processor HA Scheme	Active/Standby
FEATURE	
3GPP Compliance	Release 5, GSM
Physical Interface Support	E1
Interface to BSC	Standard A-i/f Over SS7
Interface to PLMN	SS7
Interface to OMC	E1/IP
Billing Support	CDRs to OMC
Services Framework Support	CAMEL-2/3, USSD, MAP-1/2/3
External Server Support	SMSC, SCP, IVR, HLR, LI, CRBT, VMS, EIR, MCA
CAPACITY	
Switching Capacity (Non-Blocking)	250 E
Subscribers	10,000
BHCA	40,000
E1s Towards BSS	20
E1s Towards PLMN	20
BSCs Supported	Up to 5
DIMENSIONS & POWER	
Dimensions (HxWxD)	665 x 320 x 500 mm
Weight	27 Kg
Power Supply	-48 V
Max. Power Consumption	300 W
Avg. Power Consumption	180 W
ENVIRONMENT	
Storage	ETS 300 019-1-1, Class 1.1
Transportation	ETS 300 019-1-2, Class 2.3
Operating Conditions	ETS 300 019-2-3, Class 3.2
QM Classification	QM333 Class B
Operating Temperature Range	-5° to 55 °C (23° to 131° F)

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