Q100

The Quantum automotive grade set top box enabling in-car digital terrestrial reception. Supporting DVB-T and DVB-H standard.

In-Car Digital TV

• "Free To Air" DVB-T SD and HD reception

• "Pay TV" DVB-H reception (MPEG4 H264) with MicroSD/SIM

• Dual antenna for enhanced diversity mobile reception

Automotive Grade Design

• Automotive homologated

• Easy and neat installation

• Compact solution (approx 450g cm3)

Channel Auto-Scan and Tune

• Automatic Channel Tracking

• Route locator for seamless reception while moving
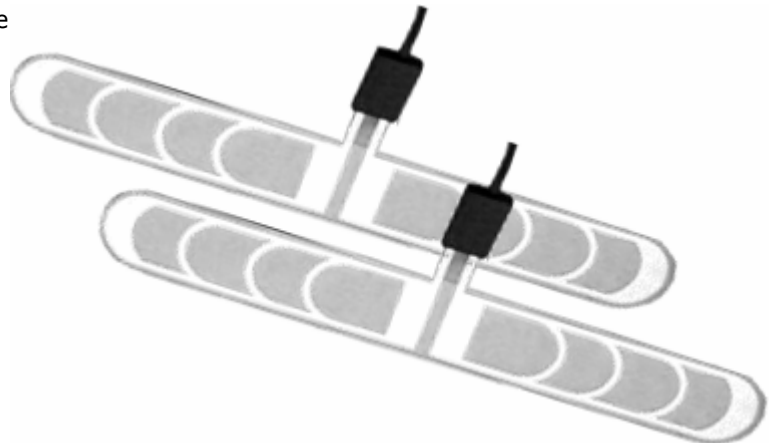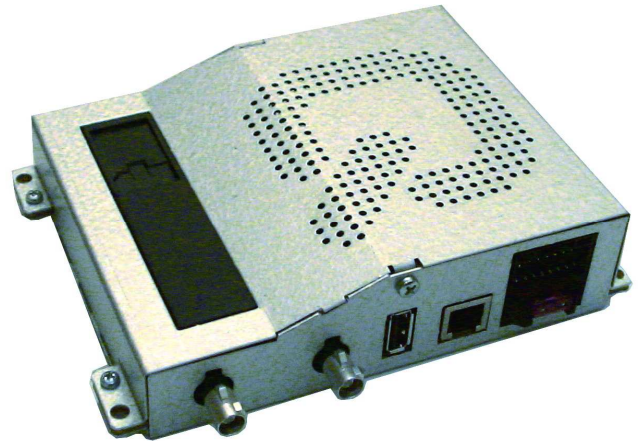
Flexible Platform

According to the chosen configuration and the appropriate mobile Tv software the Q100 supports:

• **Q100 T** : DVB-T SD and HD FTA reception

• **Q100 H** : DVB-H wiith PayTV CAS

• **Q100 TH**: both the above stated.

Additional Features

• Audio/Video pass-through interface for cascaded connection

• Easy and User-friendly interface

• Access to electronic program info

• IR Remote controlled

• Multi-language Menu

• Phantom powered dedicated active antennae

Quantum

DVB-T/H Front End
Diversity dual antenna reception
DVB-T VHF band III and UHF 21 to 69
DVB-H UHF channels 21 to 69
COFDM 2k/4k/8k carrier support
6, 7 or 8 MHz bandwidth
According to EN 300 744

DVB-H Pay-TV
MultiCA System - OSF/IPDC: NagraVision,
Irdeto and NDS or OMA BCAST DRM profile
MicroSD/SIM reader

Audio codecs
ISO/IEC 11172-2 MPEG-1 layer I/II
ISO/IEC 13818-2 MPEG-2 layer II

Video codecs
ISO/IEC 11172-2 MPEG-1
ISO/IEC 13818-2 MPEG-2 MP@ML
H.264 main and high profile level 4.1
Resolution: PAL (720x576), NTSC (640x480)

Audio and Video signals
1 In + 2 Out: Video CVBS 1Vpp 75ohm
1 In + 1 Out: Audio L+R 0.7V RMS >10kohm

Interfaces
Remote-Eye for IR remote control
Compatible with in-dash multimedia units
touch-screen by SW upgrade
Universal steering wheels controls via can-
bus interface (Unican)

Power supply
12 / 24 V DC
1 A max

RF inputs
170 to 866 MHz 50 ohm
5V phantom power 30mA max

Connectors
Main body connector: 16 pins and fuse
Dual antenna input: 2 x FAKRA
USB and RJ11 for servicing and IR

Dimensions and weight
165 x 145 x 49 (WxDxH)
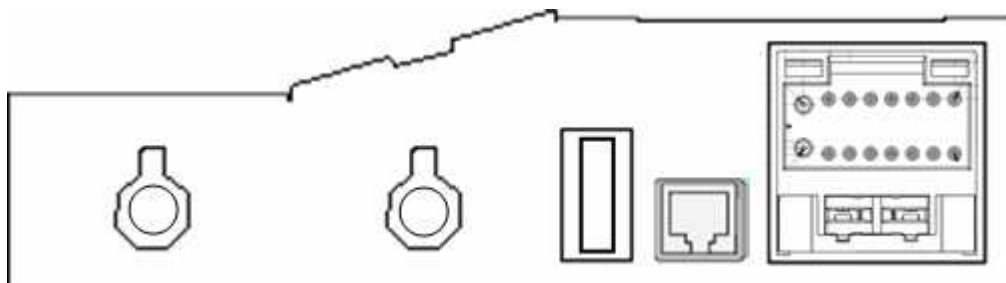450g approx

EU Compliance
EMC: 2004/104/EC
RHOS: 2002/95/EC
WEEE: 2002/96/EC
End of Life: 2000/53/EC

Automotive reference standards
CISPR 12, 16-1 and 25
ISO 7637-1 and 2
ISO 11451-1, 2 and 4
ISO 11452-1, 2, 3, 4 and 5
JASO D001

Optional (on request)
SW upgrade for OE touch-screen device
Unican interface for steering wheel control

Actual size

Quantum products are developed and manufactured in Italy
For further info www.qtm.it
Subject to change without notice

Quantum