



EDITORS' BLOG



MIBS 2023 – Raymarine Axiom Pro 2, Axiom XL 2, and more
5 days ago 2 Comments



MIBS 2023 – Icom 510BB VHF radio
1 week ago 3 Comments



Panbo(at) gets Seakeeper Ride – install complete
4 weeks ago 6 Comments



Garmin shrinks Vespa product line. Will only Cortex remain?
1 month ago 54 Comments



Three-strand or plait anchor rode? And which windlass?
4 months ago 21 Comments

NAVIGATOR
/ AIS /
2000, 0
& SIGN.



4

PRESS RELEASES



The New Iridium GO! exec Redefines Personal Off-the-Grid Connectivity



Raymarine Launches Five New Product Lines



GOST Announces New Low-Profile Mini-Dome Cameras





JOIN OUR LIST AND BE NOTIFIED OF NEW POSTS

Subscribe to Panbo to be notified
of new posts and content

Enter your name here...

Enter your email here...

SUBSCRIBE NOW

*We promise not to spam you, and you can
unsubscribe at any time.*

l
e
c
A
0
2
6
:
A
I
S
r
e
c
e
i

RECENT PANBO COMMENTS

- Ben Stein – Starlink 2023, the ever-changing state of affairs – 58 mins ago
- Jonathan Udell – MIBS 2023 – Icom 510BB VHF radio – 24 hours ago
- Patrick – KiloVault HLX+ Batteries tested, power aplenty – 1 day ago
- Bob – The New Iridium GO! exec Redefines Personal Off-the-Grid Connectivity – 2 days ago
- Luis Soltero – How Wakespeed’s WS500 alternator regulator solves complex charging issues, now with NMEA 2000 UPDATE – 2 days ago
- Ben Stein – MIBS 2023 – Raymarine Axiom Pro 2, Axiom XL 2, and more – 2 days ago
- Ben Stein – Epoch Batteries, elegant drop-in LiFePO4 – 3 days ago
- Hartley – Raymarine Launches Five New Product Lines – 6 days ago
- Jim – FCC Approved ACR Electronics ResQLink AIS Personal Locator Beacon is Launched to U.S. Market – 7 days ago



Recent Forum Posts

RE: Garmin CES 2023: Mr Creosote or Savior?
@ben-ellison Shakespeare's Romeo & Juliet? theMA...
By adventurer , 2 days ago



v

RE: Garmin CES 2023: Mr Creosote or Savior?

e

Anon, I asked ChatGPT to untangle your purple prose and...

By [Ben Ellison](#) , 2 days ago

r

RE: Garmin CES 2023: Mr Creosote or Savior?

@ben-ellison Very important subject with all the ext...

By adventurer , 3 days ago

w

RE: Garmin CES 2023: Mr Creosote or Savior?

But, anon, isn't PredictWind already offering GRIB file...

By [Ben Ellison](#) , 4 days ago

i

RE: Garmin CES 2023: Mr Creosote or Savior?

@ben-ellison "garminGO" is the point - reengineering...

By adventurer , 5 days ago

t

h

W

RE: RF Grounding

What Jeff said.. :) Some further thoughts - it seems l...

By Hartley , 7 days ago

i

F

i

,

G

P

S

,



a
n
d
N
M
E
A
0
1
8
3
m
u
l
t
i

p
l
e
x
i
n
g

BY
BEN
STEIN

·
NOVEME
5,
2020



Quark-
Elec
offers
quite
an
array
of
proble
solving
marin
electr
device
I've
been

testing
their
A026
AIS
receiver
with
built-
in
GPS;
data
output
via
WiFi,
USB,
or
NMEA
0183;
plus
an
0183
input
that
can
be
multiplexed
into
its
output
stream.
This
little
box
could
be
the
perfect

answer
for
day
sailors,
delivery
captains,
and
any
boater
looking
for
an
easy
way
to
get
AIS
target
and
GPS
data
to
a
navigation
app
running
on
a
tablet
or
phone,
or
to
a
PC
or

MFD.

But,

how

does

it

perform?

The

\$120

(excluding

VAT

and

plus

shipping

from

the

United

Kingdom)

[QK-](#)

[A026](#)

[AIS](#)

[Receiver](#)

[with](#)

[NMEA](#)

[Multiplexer](#)

[±](#)

[WiFi](#)

[±](#)

[GPS](#)

is

a

small,

metal,

black-

box

with

connections
for
VHF,
GPS,
and
WiFi
antennas,
terminal
blocks
for
NMEA
0183
in
and
out,
and
a
USB
port
for
power
and
configuration.
It
comes
preconfigured
to
act
as
an
access
point
so
you
connect
your

devices
to
its
WiFi
SSID,
point
your
app
to
its
default
of
TCP
port
2000
and
data
should
start
flowing.
In
my
testing,
everything
worked
out
of
the
box
and
I
began
seeing
AIS
targets
moments

after
connecting
it.

The
A026
uses
a
BNC
connector
for
its
VHF
antenna;
so,
if
you
have
a
PL-
259
connector
on
your
VHF
antenna
you
will
need
to
get
a
BNC
to
SO239

adapter.

Quark-

elec

sells

[one](#)

[for](#)

[a](#)

[little](#)

[under](#)

[\\$10](#)

and

I

was

also

able

to

find

one

on

Amazon.

The

device

is

powered

by

its

micro-

USB

port

and

Quark-

elec

includes

a

note

that

it

shouldn't

be

powered

by

a

cigarette

lighter

style

USB

power

supply.

I

suspect

this

is

because

of

uncertain

power

delivery

from

this

type

of

power

supply.

I'd

prefer

an

option

for

a
direct
12-
volt
power
source,
but
Quark-
elec
does
also
sell
a
small
12v
to
USB
power
converter
that
includes
LEDs
to
indicate
battery
status.

In
my
on-
the-
water
testing
with
the

Quark-
elec
A026
I
found
evidence
that
the
AIS
receiver
in
this
small,
portable,
\$120
unit
was
less
sensitive
than
the
much
more
expensive
[ACR](#)
[AISLink-](#)
[CB2](#)
I
was
using
for
comparison.
I
tried
to
control

as
many
variables
as
possible
by
using
the
two
4'
VHF
antennas
on
Panbo(at)
for
all
my
testing.
I
did
also
swap
the
antennas
just
to
make
sure
I
didn't
see
a
difference
in
performance
between

the
two
—
I
didn't.
I
don't
think
this
is
shocking,
nor
do
I
think
it
makes
the
A026
less
fit
for
its
purpose.

I
suspect
the
A026
will
be
used
primarily
in
scenarios
where

the
choice
is
between
this
device
and
nothing.
It's
also
pretty
easily
made
portable
with
USB
power
and
a
portable
antenna.
Uses
like
a
professional
delivery
skipper
hopping
aboard
a
boat
with
minimal
electronics,
or
a

budget
focused
boat-
owner
trying
to
gain
some
additional
awareness
of
the
vessels
around
them.
Given
this
choice,
it
seems
obvious
to
me
the
Quark-
elec
product
gives
you
information
which
you
wouldn't
have
otherwise,
and

mildly
reduced
sensitivity
is
likely
an
acceptable
tradeoff.

I
connected
my
iPad
running
[Aqua](#)
[Map](#),
[Navionics](#)
[Boating](#),
and
Rose
Point's
Coastal
Explorer
iOS
beta
as
well
as
a
Surface
go
tablet
running
Coastal
Explorer.
Each

of
the
connections
was
trouble-
free
and
easy,
as
long
as
you
know
the
IP
address
(defaults
to
192.168.1.100)
and
port
(default
of
TCP
2000)
to
point
your
application.
There's
not
too
much
to
show
in

these
screenshots
that
would
differentiate
Quark-
elec's
products
from
several
other
WiFi
gateways.
But,
that's
a
good
thing.
For
a
very
reasonable
cost
you
can
get
GPS,
AIS,
and
any
other
data
you
bring
in
via

NMEA
0183
onto
a
mobile
device.

Quark-
elec
offers
a
small
downloadable
application
that
allows
you
to
configure
the
device.
It
looks
like
it's
only
available
for
Windows
computers
and
they
suggest

Mac
users
utilize
BootCamp.
Using
the
configuration
software
you
can
change
the
IP
address,
data
rates
of
the
NMEA
0183
ports,
and
the
WiFi
mode.
You
can
select
Ad-
hoc
mode,
where
the
device
acts
as

a
WiFi
access
point
and
you
connect
your
phone,
tablet,
or
PC
to
it,
or
you
can
select
Station
mode
to
connect
to
an
existing
network
as
a
client.

If
the
exact
combination
of
AIS,

GPS,
and
NMEA
0183
isn't
what
you're
looking
for,
Quark-
elec
has
[a](#)
[broad](#)
[range](#)
[of](#)
[AIS](#)
[receivers](#)
starting
with
the
\$55
A021
USB
dongle
AIS
receiver
to
the
\$155
A028
which
includes
AIS,
GPS,
NMEA

0183,
and
NMEA
2000.

Although
this
AIS
receive-
only
portion
of
Quark-
elec's
lineup
may
give
up
some
sensitivity,
I
think
its
potential
for
portable
use
as
well
as
very
cost-
effective
nature
make
it

a
good
fit
for
a
lot
of
boaters.
Quark-
elec
also
offers
a
full-
featured
class
B/CS
AIS
transceiver
with
WiFi,
and
I'm
a
fan
of
how
their
many
models
allow
you
to
pick
and
choose

which
features
you
need.

R
e
l
a
t
e
d
P
o
s
t
s
:



Testing Vesper
Cortex M1:
excellent AIS,
monitoring, and...



How Wakespeed's
WS500 alternator
regulator solves
complex...





Garmin inReach
Explorer+,
armchair
transatlantics &
hands on





**Ben
Stein**
Publisher
of
Panbo.com,
passionate
marine
electronics
enthusiast,
100-
ton
USCG
master.

4
R
E
S
P
O
N
S
E
S

 **Comments** 4

 **Pingbacks** 0

[Fred](#)
[Murphy](#)

[November](#)
[6, 2020](#) at
[7:49 am](#)
Nice
job
Ben.
Good
article
about
a
reasonably
priced
AIS
receiver!
[Reply](#)

Grant
Jenkins

[November](#)
[7, 2020](#) at
[4:02 pm](#)
Neat
package,
Ben.

I
like
that
the
built-
in
multiplexer
can
take
a
4,800
baud
input
and
combine
it
with
the
AIS/GPS
output
data
stream
at
38,400,
that's
a
nice
feature.
But
I'm
not
sure
about
the
portability
scenario
–
seems
like
you'd
need

a
GPS
antenna
(fairly
easy)
and
either
a
dedicated
AIS
antenna
or
splitter
(not
so
easy)
as
part
of
the
package.
The
shortest
AIS
antennas
I've
seen
are
36"
and
not
really
designed
to
be
portable...

[Reply](#)

[Hartley](#)

[Gardner](#)



February

17, 2021

at 12:03

pm

Interesting,

Ben.

I

note

that

the

specs

call

for

-105

dbm

sensitivity,

which

is

well

over

a

microvolt

(at

50

ohms)

-

most

marine

VHFs

I've

measured

were

closer

to

-115

to

-118

dBm

for

reasonable

receive
quality,
so
this
receiver
is
indeed
less
sensitive
than
most.
Perhaps
they
do
this
to
give
it
protection
from
nearby
transmitters?
You
could
use
it
with
an
antenna
intended
for
use
with
a
handheld
radio
(some
even
have
a
BNC

connector
standard!)
though
performance
will
be
limited
(good
inside
the
harbor
or
around
the
bay,
perhaps).
Hartley

[Reply](#)

Brian



[November](#)

[21, 2022](#)

[at 2:09 pm](#)

This
is
easy
to
use
but
I
find
the
sensitivity
is
disappointing
with
little
detection
of
large

commercial
vessels
beyond
visual
limits
–
4
to
5
miles
–
using
a
good
quality
mast
antennae
mounted
about
15ft
above
the
surface.

[Reply](#)

J
O
I
N
T
H
E
C
O
N
V
E
R
S
A
T
I
O
N

Comment





Share



Website



☐ Notify me of followup comments via e-mail. You can also [subscribe](#) without commenting.

Post Comment

- Editors' Blog
- Home
- Press Releases
- Forum
- Login
- Register
- Archives
- About Panbo



Panbo © 2023. All Rights Reserved.

Powered by  - Designed with Hueman Pro

