

Singtel Satellite

Product Factsheet

AIO SmartBox



Take control of your IT at sea and transform the way you communicate

Singtel

Challenges

There is a lack of IT expertise on board vessels to manage the ship IT setup and as a result, ship board IT network is vulnerable to cyber attacks and possible misuse by crew. Shore IT managers lack tools to help them monitor, configure and take control of IT networks on board. Thus there is a need for effective combination of remote monitoring and satellite communications solutions to provide business with IT services that ensure a peace of mind for shipping companies. With effective and ease of communication for both business and crew, you can achieve higher productivity and enhance crew welfare.

Singtel AIO SmartBox is an on board centralised control box that allows Shore IT managers to take full control of the firewall settings remotely. You can now monitor the activities on board and implement new IT policies from your land office. Seamlessly integrated with Singtel's maritime broadband services, AIO SmartBox is an access point between the on board IT systems to the outside world.

Ship management companies can have the flexibility to amend IT policies according to client's needs instead of sending an IT manager on board every time a change of policy is required.

It comes with a AIO Data solution that allows you to issue voice and data PINs and vouchers to crew simply by accessing the onboard AIO SmartBox dashboard.

A step improvement from issuing crew vouchers via emails from shore. All PINs and vouchers sold will be synchronised with shore so that crew purchases are well documented for charging later. Shore IT managers still have full control and flexibility of the quantity of the PINs and vouchers per vessel.



AIO SmartBox comes integrated with the widest range of Satellite Communications broadband services. Both business and crew will get access via BYOD (Bring your own device) and AIO Data services.

Crew can stay connected with their families and friends via their own smart phone devices. With higher throughput broadband service, automation and real-time processing on board is possible. AIO SmartBox helps to take control of automation on board to increase efficiency and strengthen IT control, strengthen business security and enhance crew welfare.

Benefits



Improve operational efficiency

and business security with full control of firewall from shore and minimise misuse. Through the shore IT dashboard, you can add and modify firewall rules, perform Network Address Translation (NAT) and implement Quality of Service (QoS) settings.



Enhance crew welfare

through ease of implementation of policies with options to set time based or volume based vouchers and dashboard management. You have the flexibility to change the options for crew on board easily through an intuitive dashboard.



Experience better communication

between ship and shore. AIO SmartBox comes with a file transfer function which allows IT Manager to share documents of up to 10MB with his fleet of vessels efficiently. In return, ship captains can upload documents via the AIO SmartBox to the shore office.



Improve cost management

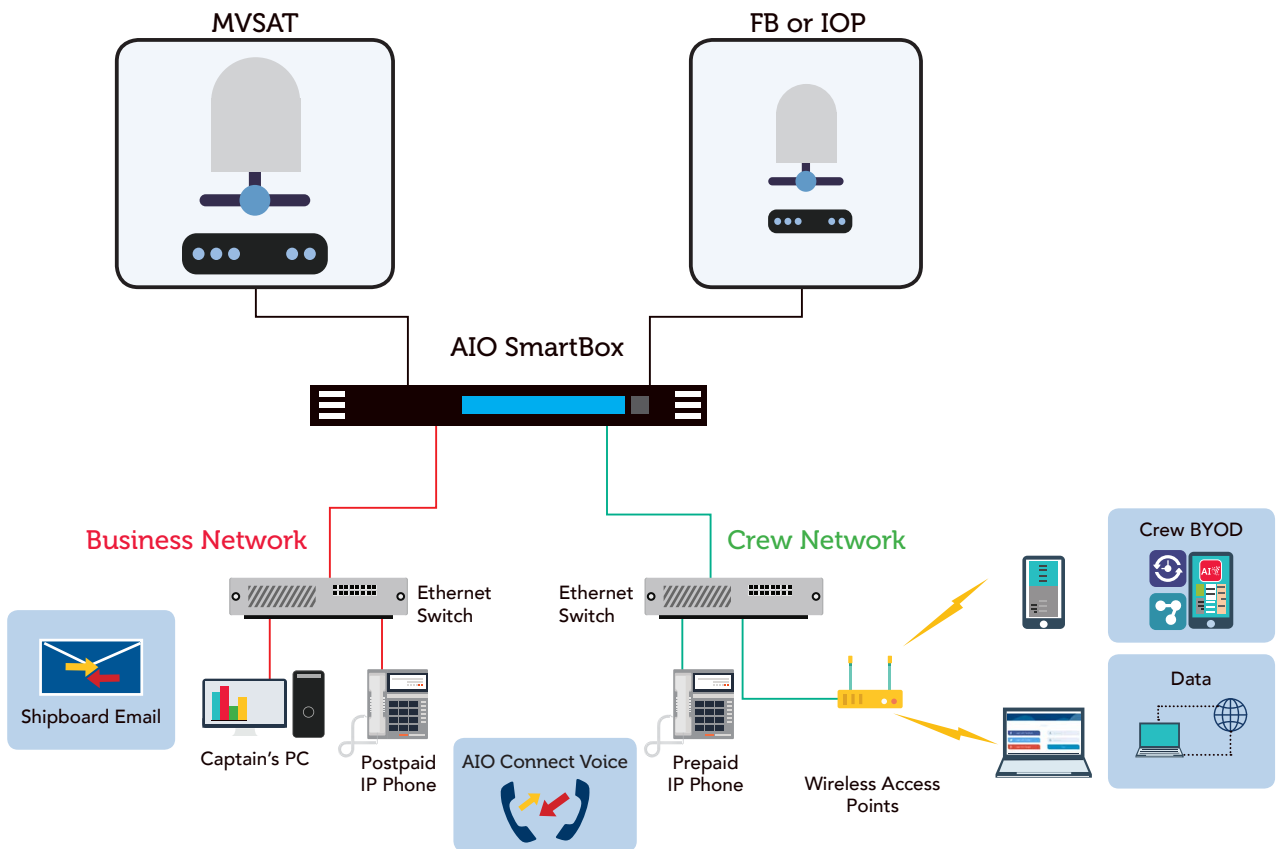
with control on traffic surge and crew misuse on board. With the ability to monitor vessel traffic usage and set appropriate alerts, you can now make more informed decisions and manage your communications cost better. Furthermore, the AIO SmartBox comes with a vessel tracking function which allows the IT Managers to plot the path of a vessel. This will enable shore managers to better manage vessel routes to save fuel costs.



Strengthen IT security

and control with Internet usage reports, traffic statistics by vessel and alerts. Data and call logs are synchronised with shore, thus traffic statistics to understand usage for every vessel are readily available. IT Managers can set alerts if traffic usage exceeds predetermined threshold to better control costs and prevent misuse.

Maritime VSAT Broadband Service (FleetBroadband or Iridium OpenPort as backup)



AIO SmartBox Specifications

Description	
Type	Rack mount (wall mount option available)
Physical Dimensions	440mm x 350mm x 44mm
Weight	3.5Kg
System	
Operating System	Linux
Processor	INTEL® Atom Processor D525 (Dual Core)
RAM	DDR3-800 2GB (4GB max)
SSD Storage	SATA 3.0 6Gb/S (1000 G (max) at 0.5 msec)
Available Ports and Other I/F	
Ethernet (RJ-45)	5 x Gigabit (Expandable up to 13x)
USB	3 x USB 2.0/1.1 & 2 x USB 3.0 ports
Internal ports	32-pin LVDS, 1 x GPIO header, 1 x Parallel
Available PCI slots	2 x optional PCI slots
Other	1 x COM, 1 x VGA
Electrical	
Internal Supply	100-240VAC / 50Hz
Consumption	35W max
CE certification	EN55022:2010+AC:2011 EN 55024:2010 EN 60950-1:2006
Environmental	
0-60°C	
10-85% @ 40°C, non-condensing	

About Singtel

Singtel is Asia's leading communications technology group, providing a portfolio of services from next-generation communication, technology services to infotainment to both consumers and businesses. For consumers, Singtel delivers a complete and integrated suite of services, including mobile, broadband and TV. For businesses, Singtel offers a complementary array of workforce mobility solutions, data hosting, cloud, network infrastructure, analytics and cyber-security capabilities. The Group has presence in Asia, Australia and Africa and reaches over 650 million mobile customers in 21 countries. Its infrastructure and technology services for businesses span 21 countries, with more than 428 direct points of presence in 362 cities.

About Singtel Satellite

Singtel Satellite is Asia's leading provider of one stop satellite communications and ICT solutions, driving innovations to meet voice and digital challenges in Fixed and Mobile Satellite segments on both land and at sea.

With a strategic focus on Maritime communications, Singtel Satellite engages the key needs of Maritime customers with broadband satellite communications, Cyber Security solutions and ICT applications in Crew Welfare, Operational Efficiency, and Monitoring and Control, bridging mission critical communication gaps between ship and shore.

From satellite to fibre to IP, Singtel Satellite offers global coverage and versatility across platforms. Backed by 3 teleports pointing to more than 30 satellites and supported by our award winning IP VPN infrastructure and an extensive terrestrial network of with more than 428 direct points of presence in 362 cities, Singtel Satellite ensures quality customer experience in communications and connectivity.

Committed to delivering service excellence and with more than 40 years of collective experience, Singtel Satellite empowers global customers with complete solutions to organically drive productivity, efficiency, and experience.

Awards

Seatrade Maritime Awards Asia
Communications at Sea Award 2018

VAST Industry Awards
VAST Service Provider of the Year 2016, 2014

The Technical Innovation Award
Seatrade Asia Awards 2012, 2010, 2008

Global Top 20 World Teleport Association
Top Teleport Operators of 2017, 2016, 2014, 2013, 2012, 2010, 2009