ADLINK
Leading EDGE COMPUTING

Use Case: Surveillance Services

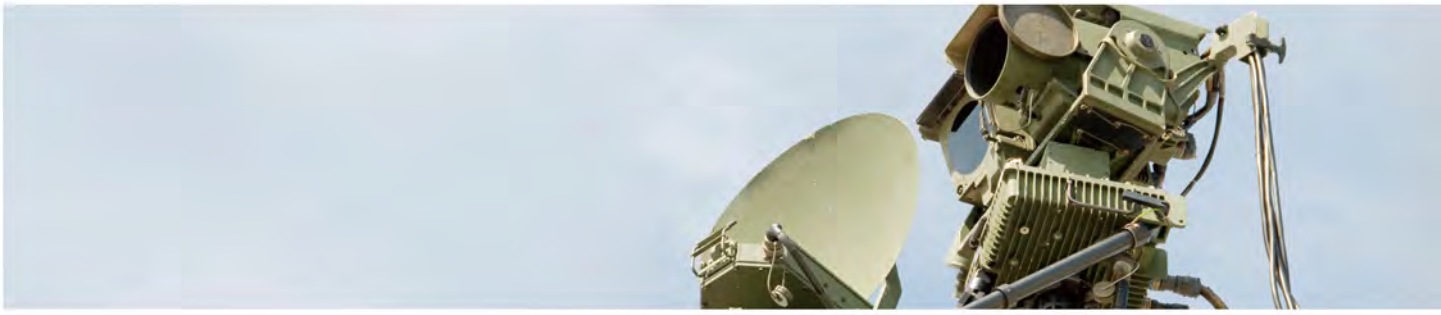
4G/LTE Surveillance Services in Remote and Harsh Environments

Extreme Outdoor Server SETO-1000



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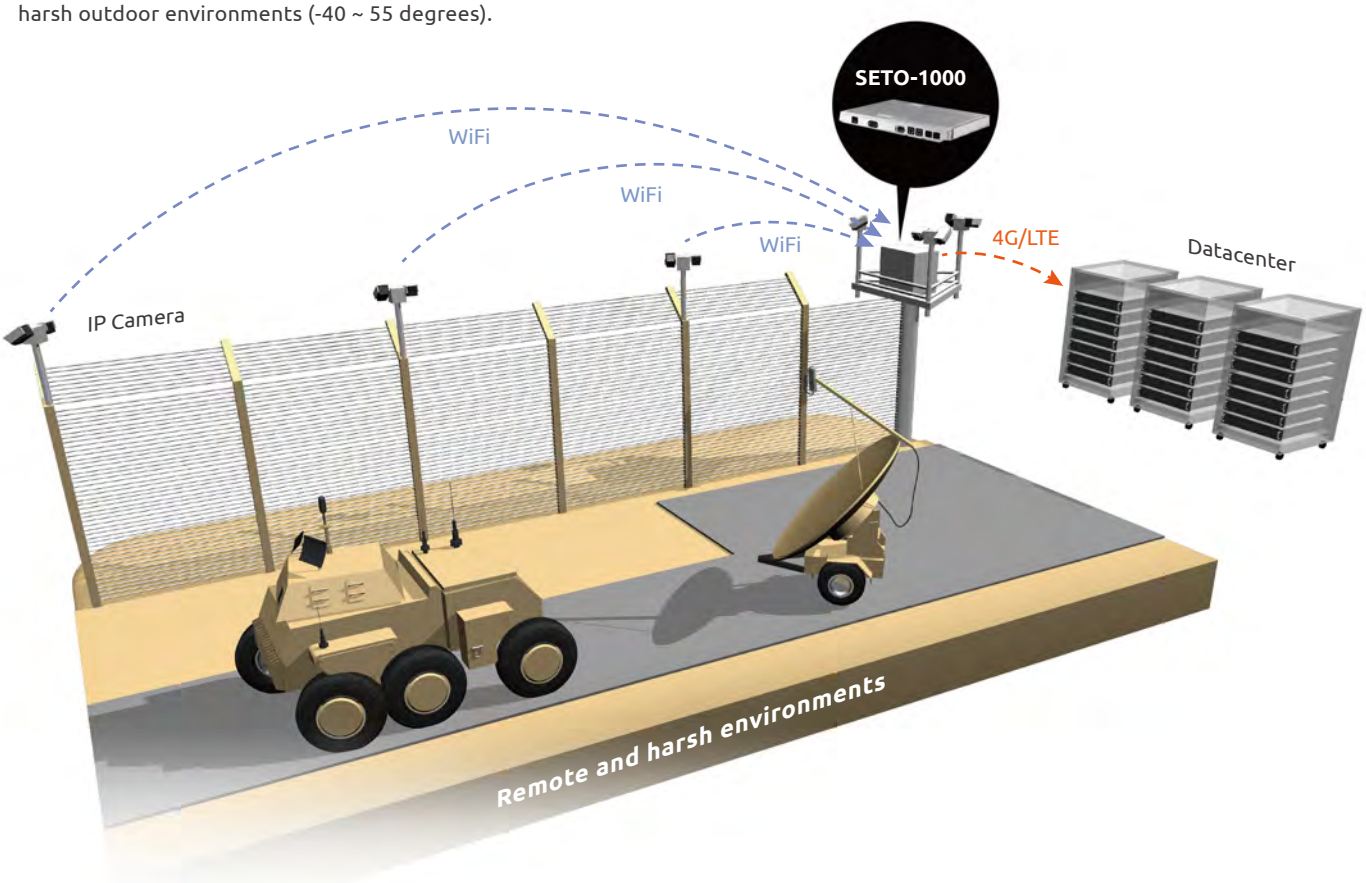
The Problem

According to the OpenSignal report on “The State of LTE (February 2018)”, there are still 10 countries in the world where 4G communications availability is below 60%. These countries generally have sparse populations with most of their territory consisting of harsh environments unsuited to the installation of base stations or server rooms.
The first challenge facing communications coverage in remote regions is the difficulty of finding existing buildings to set up a server room, while building from scratch is very time and resource consuming. The latest solution is to build small cells in the field that have their own computing capacity. However, communications often requires the computing capacity provided by server-grade processors that are unable to withstand the extremely high or low temperatures of harsh environments.

The Application

- ***Application: Deployment of 4G/LTE surveillance services in remote areas with no telecom coverage***
- ***Region: Asia***
- ***Industry: Military***

To effectively monitor military movements in the desert, outdoor IP cameras were set up by the client for surveillance use. The huge amount of video data necessitated pre-processing such as encoding/decoding by edge servers to reduce the burden on the network. The two key requirements were therefore high computing performance and a configuration suitable for harsh outdoor environments (-40 ~ 55 degrees).



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ADLINK Solution

Extreme Outdoor Server SETO-1000

Intel® Xeon® Processor E5-2400 v2 series
Intel® C604 Chipset

2x SATA hot-swappable drive bays for easy maintenance

Packet processing acceleration with ADLINK PacketManager



Conduction cooled, aluminum chassis
Operating Temperature
Range: -40°C to +55°C

Dual 10G SFP+ ports
Dual 10/100/1000 BASE-T ports

IP65 ingress rating:
water and dust proof

Advantages and Benefits

- ***High Computing Capacity and Density:*** Data center server-grade performance powered by Intel® Xeon® E5 Processors with excellent 4K video data processing capability in a 1U platform.
- ***Unmatched Rugged Design:*** An ideal solution for extremely harsh outdoor environments with a high level of shock and vibration resistance, conduction cooling, -40°C to +55°C operating temperature range, and IP65 water and dust ingress rating.
- ***Excellent Customization Service:*** Fast delivery of customization to meet specific system requirements such as optimized 48GB RAM, removal of unwanted I/O's and enhanced operation for up to 6 virtual machines.
- ***Low Maintenance and High Reliability :*** SETO-1000 reduces maintenance costs by eliminating fans and filters and offering worry-free, weather-resistant, high-speed connections with copper and fiber options, effectively improving reliability and increasing uptime.
- ***Short Development Cycle and Fast Time-To-Market:*** ADLINK's application ready intelligent platform (ARiP) software (such as PacketManager), remote management functions, and system management APIs for application developers enable the customer to focus primarily on their application development.

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WORLDWIDE OFFICES

ADLINK Technology, Inc.

9F, No.166 Jian Yi Road, Zhonghe District
New Taipei City 235, Taiwan
新北市中和區建一路166號9樓
Tel: +886-2-8226-5877
Fax: +886-2-8226-5717
Email: service@adlinktech.com

Ampro ADLINK Technology, Inc.

5215 Hellyer Avenue, #110 San Jose, CA 95138, USA
Tel: +1-408-360-0200
Toll Free: +1-800-966-5200 (USA only)
Fax: +1-408-360-0222
Email: info@adlinktech.com

ADLINK Technology Singapore Pte. Ltd.

84 Genting Lane #07-02A, Axxel Innovation Centre,
Singapore 349584
Tel: +65-6844-2261
Fax: +65-6844-2263
Email: singapore@adlinktech.com

ADLINK Technology Singapore Pte Ltd. (Indian Liaison Office)

#50-56, First Floor, Spearhead Towers
Margosa Main Road (between 16th/17th Cross)
Malleswaram, Bangalore - 560 055, India
Tel: +91-80-42246107, +91-80-23464606
Fax: +91-80-23464606
Email: india@adlinktech.com

ADLINK Technology Japan Corporation

〒101-0045 東京都千代田区神田鍛冶町3-7-4
ユニゾ神田鍛冶町三丁目ビル4F
Unizo Kanda Kaji-cho 3 Chome Bldg. 4F,
3-7-4 Kanda Kajicho, Chiyoda-ku, Tokyo 101-0045, Japan
Tel: +81-3-4455-3722
Fax: +81-3-5209-6013
Email: japan@adlinktech.com

ADLINK Technology Korea Ltd.

경기도 용인시 수지구 신수로 767 A동 1008호
(동천동, 분당수지유타워) (우) 16827
A-1008, U-TOWER, 767 Sinsu-ro, Suji-gu,
Yongin-si, Gyeonggi-do, Republic of Korea, 16827
Toll Free:+82-80-800-0585
Tel: +82-31-786-0585
Fax: +82-31-786-0583
Email: korea@adlinktech.com

ADLINK Technology, Inc. (Israel Liaison Office)

SPACES OXYGEN, 62 Medinat, Ha-yehudim st
4673300, Herzliya, Israel, P.O.Box – 12960
Tel: +972-54-632-5251
Fax: +972-77-208-0230
Email: israel@adlinktech.com

ADLINK Technology (China) Co., Ltd.

上海市浦东新区张江高科技园区芳春路300号 (201203)
300 Fang Chun Rd., Zhangjiang Hi-Tech Park
Pudong New Area, Shanghai, 201203 China
Tel: +86-21-5132-8988
Fax: +86-21-5192-3588
Email: market@adlinktech.com

ADLINK Technology Beijing

北京市海淀区上地东路1号盈创动力大厦E座801室(100085)
Rm. 801, Power Creative E, No. 1 Shang Di East Rd.
Beijing, 100085 China
Tel: +86-10-5885-8666
Fax: +86-10-5885-8626
Email: market@adlinktech.com

ADLINK Technology Shenzhen

深圳市南山区科技园南区高新南七道数字技术园
A1栋2楼C区 (518057)
2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7
High-Tech Industrial Park S., Shenzhen, 518054 China
Tel: +86-755-2643-4858
Fax: +86-755-2664-6353
Email: market@adlinktech.com

ADLINK Technology GmbH

Hans-Thoma-Straße 11
D-68163 Mannheim, Germany
Tel: +49 621 43214-0
Fax: +49 621 43214-30
Email: germany@adlinktech.com

Ulrichsbergerstraße 17
D-94469 Deggendorf, Germany
Tel: +49 991 290 94–10
Fax: +49 991 290 94–29
Email: germany@adlinktech.com

ADLINK Technology, Inc. (French Liaison Office)

6 allée de Londres, Immeuble Ceylan 91940
Les Ulis, France
Tel: +33 (0) 1 60 12 35 66
Fax: +33 (0) 1 60 12 35 66
Email: france@adlinktech.com

ADLINK Technology, Inc. (UK Liaison Office)

First Floor West Exeter House,
Chichester fields Business Park Tangmere,
West Sussex, PO20 2FU, United Kingdom
Tel:+44-1243-859677
Email: uk@adlinktech.com

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